

ANDREWS UNIVERSITY

FOCUS

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OUR READERS WRITE

We enjoy the contemporary, fresh approach of FOCUS, have especially enjoyed the printed messages of various centennial speakers.

Fred and Diane Kasischke
Long Beach, Calif.

"Big Oaks From Little Acorns..."

When relatively little things are done in our every-day lives, the Lord usually magnifies the results far beyond the expectation of the one accepting the opportunity. An example of this was a few years ago when Henry Feyerabend, who was with the Voice of Prophecy of South America, visited us and mentioned the difficulty they were having in the printing of their Bible Course lessons and literature needed for mailing. We were able to obtain a second-hand offset press and some photo- and plate-making equipment, which was a rather small investment on our part made through the General Conference and transferred to that division. In due time, the press and equipment arrived and solved the need of their being able to do their own printing, which I understand has grown considerably since that time.

Thus, it was our privilege somewhat over a year ago to donate some acreage in Florida, which we had bought years ago, to the Florida Conference with half going to a local church school building and the other half for graphic arts education for students. When some \$18,000 was realized for the latter fund, it developed that there was no educational institution teaching graphic arts except, as we found, Andrews. Thus, for a starter, they [the Florida Conference] gladly transferred \$5,000 from this fund to Andrews; and it has been specified for occupational training for students with aptitudes and interest in this field, whereby upon completion of the relatively short course they would be willing to accept employment at an Adventist institution or at our plant here.

Printed communication, from the very beginning of our work, has been important. But there seems to be a lack in the interest and training of students to fill the graphic arts needs, not only in this country, but elsewhere as well. I visited a non-denominational black school in the south some two years ago. They had typesetting, offset printing and plate-making equipment, but no one to teach or train their students. I tried unsuccessfully to find an available Adventist printer to fill this post, and even with plans to make same a self-supporting operation, this opportunity has passed by unfilled. This is in America, not a foreign field.

Thus, I am hopeful that this small start (\$5,000 for scholarships in graphic arts) will prompt missionary-minded students and other individuals to devote time, effort, talent, and necessary money to make this means of communication that which it can be, "a light on the hill."

It was my privilege to attend EMC many years ago, and although I had only one and a half years of college, it proved to be a pretty good education. There may be nearly as many students who have succeeded who are non-graduates as those who have graduated. This might be a field worth exploring.

1774 was the year when the first patriotic flag was raised by Minute Men in this city as they protested against the British closing of the Boston port. This and many other acts triggered the efforts of 200 years ago in achieving the liberties we enjoy today. One hundred years later was the year of the founding of Andrews University, which you are now celebrating. We wish you every success in the years ahead.

Sincerely,

Carroll N. Cross, president
CARCROSS COMPANY, INC.
Taunton, Massachusetts

Just want to say thank you for another outstanding FOCUS that I received in the mail. It is one of the few school papers I bother reading. Keep up the good work! Keep the good articles coming, like the one written by Dr. Oosterwal, which was so interesting—in fact I preached it, as was, to my church about the great piles of salt; and also the one by Dr. Beaven on education—tremendous! Keep up the good work.

Pastor Terry McComb
Richmond Hill, Ontario
Canada

I enjoy receiving FOCUS and its content is worthwhile and interesting.

May I point up, however, that in the April-May issue, on page 14, the caption listed five men left to right in the photo at the left. The first gentleman on the left is not E. N. Wendth, but rather Everett E. Duncan, director of evangelism for Faith for Today.

Richard J. Barnett
Director, Public Relations
Faith for Today
Newbury Park, Calif.

It was with a sense of permissible pride that I noted the wonderful improvements and expansion of our alma mater. There is no question that Andrews is playing a tremendous role in training workers of many categories for the world church. We have in our Division many stalwart, well-qualified, well-trained, spiritual leaders; and we thank Andrews University and its dedicated staff for the contribution that is being made to our Division.

B. L. Archbold, president
Inter-American Division
of SDA's
Coral Gables, Florida

Correction

April-May issue of FOCUS stated that Don Antisdal, former employee at Andrews University, is in charge of maintenance at Cedar Lake Academy. Correction: he is on the maintenance staff; Mr. Joe Breyer is in charge of the department.

OUR COVER

Unusual sight on campus at commencement time, August 11, was students from various countries standing under their own flag, singing their national songs, or snapping pictures of each other.

The International Flag Walk was displayed for the first time at Andrews during summer graduation services.

Approximately 60 flags from around the world were spaced along three sides of the Seminary Green between Pioneer Memorial Church and the James White Library. The U.S. and Canadian flags headed two long rows incorporated in the open-ended rectangle.

The special flag walk recognizes the international aspect of AU and its cosmopolitan culture, said Dr. Richard Hammill, president. One out of six AU students is from a country other than the U.S., and one-third of Andrews faculty were born in other countries or have non-U.S. citizenship.

Funds for the avenue of flags were contributed by AU alumni, faculty, staff, students, and friends. Space has been arranged for a few more flags should more contributions be received, said Pietro E. Copiz, assistant professor of modern languages and sponsor of the International Student Affairs Committee at A.U. Copiz designed the Flag Walk and coordinated its installation.

Photo by Dick Dower

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AU Graduates 180 at Summer Convocation



Andrews University graduated 180 persons and awarded three honorary doctorates during summer commencement on Sunday, August 11.

Graduates included 61 from the College of Arts and Sciences, 81 from the School of Graduate Studies, and 38 from the SDA Theological Seminary. Among the seminary graduates were the first three persons to complete the doctor of ministry degree at AU.

Honorary degrees included a doctor of humane letters degree to Mrs. Miriam Gilbert Tymeson, principal of the J. N. Andrews Adventist Elementary School in Takoma Park, Maryland; a doctor of laws degree to Chan Shun, a leading Asian SDA industrialist, financial expert, and philanthropist; and a doctor of laws

degree to the commencement speaker W. Duncan Eva, vice president for administration at Adventist world headquarters, Washington, D.C.

Other graduation weekend speakers were Mrs. Miriam G. Tymeson, principal of the John Nevins Andrews Elementary School in Takoma Park, Maryland, who presented the consecration sermon, "Freedom to Know," on Friday evening, Aug. 9; and Kenneth J. Mittleider, president of the Wisconsin Conference of Seventh-day Adventists and a member of the AU board of trustees, who gave the baccalaureate sermon, "Ready and Waiting," on Sabbath morning.

Responses to the consecration sermon were given by the presidents of the graduating classes: Rebekah

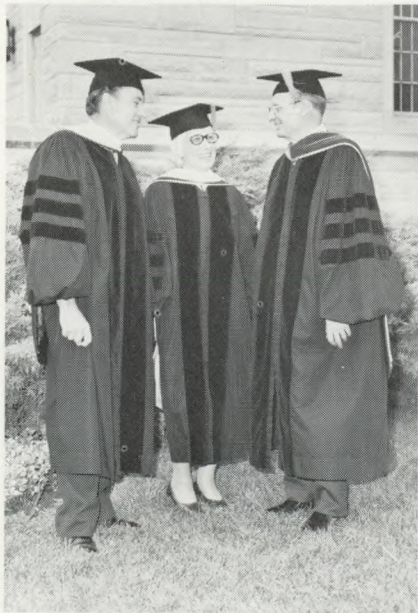
Wang of the College of Arts and Sciences, and Kenneth Harding of the graduate divisions. Miss Wang, of Knoxville, Illinois, was a candidate for the bachelor of arts degree in behavioral science; and Harding, of New Hyde Park, New York, was a candidate for the master of divinity degree.

Consecration speaker Miriam Tymeson has served for 51 years in the educational work of the Seventh-day Adventist Church, 37 of those years in the school she founded, the J. N. Andrews School. She supervises a teaching staff of 29 members and an average enrollment of 500 students. She is a member of the Maryland State Committee for Private Schools, the National Association of Elementary Principals, and the National

Association for Supervision and Curriculum.

Kenneth J. Mittleider, baccalaureate speaker, has been president of the Wisconsin Conference since 1969. A native of Idaho, he began his ministry there 23 years ago. He has also served as an evangelist in the Washington and North Pacific Union Conferences, as well as having conducted field schools for the Theological Seminary at Andrews in Hawaii, Lebanon, Ethiopia, Kenya, and Tanzania.

Commencement speaker W. Duncan Eva has been a teacher, pastor, and administrator for the Seventh-day Adventist Church for 40 years. Before coming to his present position, he was a pastor in the African areas of Natal, the Transvaal, Rhodesia, and Bechuanaland. He served as president of the East Africa (Nairobi) and South African Unions, as secretary of the Trans-Africa Division, and as president of the Northern Europe-West Africa Division. He is credited with developing policies and organizational procedures by which the indigenous SDA churches of Africa have accepted responsibility for the work of the church in their local areas.



Graduation weekend speakers are (from left) Kenneth J. Mittleider, president of the Wisconsin Conference of Seventh-day Adventists, baccalaureate sermon; Mrs. Miriam G. Tymeson, principal of the John Nevins Andrews Elementary School in Takoma Park, Maryland, consecration sermon; W. Duncan Eva, vice-president for administration at Adventist headquarters, Washington, D.C., the commencement address.

What Are We Saying?

Commencement address by W. DUNCAN EVA, vice president for administration at Adventist world headquarters

President Hammill, members of the Board of Trustees and of the faculty of Andrews University, honored guests and graduates, the alumni of this remarkable institution are to be found in almost every land of earth. They represent their alma mater with distinction and make its influence felt in a thousand wholesome ways. In addition, many hundreds of others have been benefited by the Extension Schools that for well more than two decades Andrews has conducted all over the world. I therefore count it a coveted privilege and a distinct honor, as an alumnus of this great University with its strong tradition of Christian service and unselfish ministry, to be invited to address you on this occasion.

These are confusing times. A thousand different voices clamor insistently for man's attention. What are they saying? It is not always easy to tell, but when the history of the past thirty or thirty-five years comes to be written, the period will without doubt be seen as that of the world's greatest revolution. Beside it, all other revolutions pale despite the violence of the upheavals they have caused and the widespread changes they have effected. It is not the technological I am thinking about, not long-range missiles, the hydrogen bomb and deadly biological warfare nor on the other hand about modern medicine and surgery. It is not supersonic travel, space exploration, or any other marvel of modern science. It is the revolution in man himself.

The trend is away from true faith to unbelief, to secularism, and materialism, to unbounded faith in man and his power and potential. Much of Europe and almost all of Asia is today dominated by communism, atheistic and hostile, many times with its doors firmly shut to Christianity. In the so-called third world, former colonial territories are now fully independent nations. They are turning away from the Christianity they once embraced claiming that it is rooted in alien values and traditions, or they are openly modifying it to fit into and serve the interests of national and cultural patterns. But it is in what was once called Christendom that the greatest changes have taken place. In its now almost pagan society, empty and often derelict churches bear witness to a dying faith; children grow to adulthood without religious instruction; and the permissiveness that less than a decade ago abandoned accepted standards of life and conduct is hardly talked of today. It is here to stay.

But even more disturbing is another sinister development. It is the increasing disregard of constituted authority. Angus Maude,

a respected member of the British House of Commons, thinking of the ultimate outworking of this trend, wrote in a recent article in London's *Sunday Express*:

Children and young people are being continuously exposed, in many schools and colleges and through the communications media that penetrate their homes, to a campaign designed to encourage them not just to question (which can be healthy) but to reject authority and conventional standards of quality and behaviour.

If this is allowed to continue unchecked, it will destroy our freedom. It is a recipe for social, moral, and political anarchy—to say nothing of the authoritarian reaction that must inevitably follow it.

Many years ago Ellen White wrote, "The spirit of anarchy is permeating all nations, and the outbreaks that from time to time excite the horror of the world are but indications of the pent up fires of passion and lawlessness having once escaped control will fill the earth with woe and desolation." *Patriarchs and Prophets*, p. 102. Such anarchy she says elsewhere "is seeking to sweep away all law, not only divine, but human. . . . The spirit of unrest, of riot and bloodshed; the world-wide dissemination of the same teachings that led to the French Revolution—all are tending to involve the whole world in a struggle similar to that which convulsed France." *Education*, p. 228.

Do I need to underline the accuracy of these predictions of implacable opposition to law and government? Is it necessary to cite evidence of the declared purpose to destroy them and of the extent to which anarchy already prevails? I hardly think so.

The question I want to ask this morning is, what are we Seventh-day Adventists saying to such a world? What real message do you and I as graduates of this Christian university give to the people around us?

I do not apologize for asking this question nor for giving a distinctly biblical and Adventist emphasis in my remarks today. Dare I do otherwise in times such as these? I remind myself that when Jesus came to earth two thousand years ago He might have unlocked certain mysteries of the universe which yet could require of man many centuries of toil and study to penetrate. He could have made suggestions in scientific lines that would have afforded food for thought and stimulus for study and invention. Then perhaps centuries ago men would have been where they now are, and today might have been who can say where? But



Left: Honorary doctorates conferred during summer commencement at Andrews University are presented by Dr. Richard Hammill (left), university president, to (from left) Chan Shun, Hong Kong industrialist, financial expert, and philanthropist; Mrs. Miriam Gilbert Tymeson, principal of the J. N. Andrews Adventist Elementary School in Takoma Park, Maryland; and W. Duncan Eva, vice-president for administration at Adventist headquarters, Washington, D.C. Mrs. Tymeson received a doctor of humane letters degree; Chan and Eva, the doctor of laws degree.

He chose rather to place His emphasis on the greater things, the things of eternal value, on righteousness, service, selflessness, love, a transformed life.

If He were here today, what would He say to us on this occasion? Where would His emphasis lie? I am sure He would seek to effect fundamental changes in some of our basic attitudes even as He sought to do with the Jews. Well might He shatter some of our vainglorious ideas even as He shattered their notions of splendor and their dreams of power. He might well restate for us the basic principles of life even as for them He remade royalty and kingship. They had looked for a conquering Messiah but received one broken on a cross. So might He teach us as He taught Peter and the others, "If anyone wishes to be a follower of mine, he must leave self behind; he must take up his cross and come with me." Matthew 16:24, NEB.

It was not easy then, and it is not easy now, for people, yes especially educated and even religious people, to receive this lesson. But one, a converted "older brother" rather than a prodigal come home, saw with the clearest discernment the meaning of it all. The proclamation of Christ, he said, "yes, Christ nailed to the cross . . . is a stumbling block to Jews and folly to Greeks, but to those who have heard His call . . . He is the power of God and the wisdom of God." 1 Corinthians 1:23, 24, NEB.

This way of life, this heavenly power and wisdom, is also a stumbling block to the materials of the 70's. To the man in the street it is impractical and unrealistic, to the politician it is "most inexpedient," to the intellectual it is nonsense, to the revolutionary it is the sure extinction of his cause. Indeed, as Paul indicated to the Galatians (5:11) "the offense of the cross" has not ceased.



Below: The first three doctor of ministry degrees earned at the Seventh-day Adventist Theological Seminary were awarded at AU's summer commencement. From left are Dr. W. G. C. Murdoch, who led in organizing the new doctoral program at the seminary; the three recipients, Edwin A. English, Elwood Edward Staff, and John Andrew Kroncke; and Dr. Arnold Kurtz, director of the doctor of ministry degree program at AU. English will be teaching in the theological department at Caribbean Union College in Trinidad, West Indies; Kroncke is pastor of the Pioneer Memorial Church on the Andrews campus; and Staff will be the pastor of the Redlands, California, SDA Church.

First let us recognize that the cross offends the world, its shallow wisdom and its corrupt philosophy, its greed and its materialism, its self-righteousness and its hypocrisy, its crookedness and its cruelty. It offends that brand of religion which still today urges men to choose the methods of violence to settle their problems, that teaches them to trust the strong arm and the mailed fist of "Jesus Bar-Abbas" while it delivers up "Jesus called Messiah," the Lord of life and love, to be crucified. Matthew 27:21, 22, NEB.

And next it offends pride. There is nothing in which man glories as much as in himself. He is proud of family and origin, of learning and skill, of past history and future aspirations, of natural endowments and personal accomplishments. No words are sweeter to his ears than the praise of his virtues. Great is the temptation if others are slow

to recognize them, to slyly draw attention to them and even himself to eloquently set them forth. True humility is a rare virtue and a fragile one. It must be kept locked in the casket of the heart for if one parades it for display or takes it out for even one admiring look, its matchless beauty is transmuted to the ashes of the ugliest pride.

The cross offends every form of human pride. When we stand before it, how little we are! There, in mortal weakness, is the King of all the ages. On Him, in His spotless purity, God has laid the sin of every man in every century. Awful, baffling mystery, Christ has become sin for us! Here is the pivot of all history; this is the most fateful hour of time and all eternity! What place is there in such a Presence for pride, for human boasting? Its mouth is stopped, its voice is stayed in guilty silence.

And thirdly, against nationalism

Graduating Nurses Pinned In Ceremony at AU

Ten nursing students, candidates for the bachelor of science degree at Andrews University's summer commencement, received their university pins at a ceremony in the Lamson Hall chapel on the campus, Sabbath, August 10.

Speaker for the program was Dr. Robert A. Williams, professor of education at AU, whose topic was "Service for Life; a Life of Service." The ceremony marked the first

time the students wore their white graduate uniforms; and after the speaker's address, they were pinned by nursing faculty members as Miss Alice Smith, chairman of the nursing department, read each name.

Twenty-one students received their pins during spring commencement weekend at Andrews in a ceremony traditional in nursing schools for students who have completed requirements for their degrees.

and racism the cross also offends. Listen to the Sanhedrin Council plotting the death of Him who taught the philosophy of the cross. "What action are we taking?" they ask. "This man is performing many signs. If we leave him alone like this, the whole populace will believe in him. Then the Romans will come and sweep away our temple and our nation." His teachings and philosophy are not compatible with our religious establishment nor with our national existence. "It is more to your interest," the High Priest declares, "that one man should die for the people than that the whole nation should be destroyed." And so with the feeble light of conscience extinguished and the fires of national passion fanned, they plot His death and in a few short weeks accomplish it. John 11:47-53, NEB. Their nationalism and its kindred evils could not endure the offending Christ.

But let us ask another question. What value have the distinctions of which men make so much—nation, race, birth? None; for man has neither intrinsic value nor dignity. These were lost when Adam fell. Therefore, as graduates of this Christian university, with Paul, we must write off what we once thought assets. Our only dignity and that of any human being is the dignity which Christ bestowed at the cross, the only value of our souls or of any soul, the infinite worth with which calvary has clothed us.

The cross insists that we evaluate men, not according to their social standing, their talents or education, the accident of birth or the color of skin. It requires that regardless of all the differences God permits between His children, we see in every one of them a soul of infinite worth. The cross forbids every other kind of evaluation; its offense to nation and race and birth has not ceased.

And fourthly, the cross cries out against the inhumanity of man to man whatever form it takes. It protests if we remain silent when it is our duty to speak, if we slip away rather than serve, if we pretend not to see what God expects

us to do, if we have the remedy but do not apply it.

The one to whom the Father has committed all judgment says, "Inasmuch as ye have done it (or done it not) unto one of the least of these, my brethren, ye have done it (or done it not) unto me." Matthew 25:40. This then, our attitude toward our fellow men, is the issue on which the final judgment will turn. The cross condemns the indifference of the priest and the shrug of the Levite. It demands that we involve ourselves as the good Samaritan did.

And next I would remind you, the cross offends sin. Not only its manifestations, but the corrupt and selfish principle underlying it. In its selfless love, the cross is the antithesis of all of this.

One of the darkest mysteries of life is the tide of woe that has flowed from the first sinful act. The Word tells us that sin entered the world by one man and thus death and suffering pervade the whole human race. But it makes plain that it is not by the arbitrary will of an offended God that the iniquities of the fathers are visited on the children; it is the awful damning logic of sin. No other consequence could follow. And what a tide has flowed out from that one act! In every passing generation it has flowed wider, deeper, stronger; engulfing, overwhelming, destroying. Where is the justice of it? Why must its tale of misery in every generation cry out to be stopped and avenged? Why did God permit this evil in the first place? Why does He allow it to continue?

The Bible does not give a reasoned answer. Jesus Himself did not *speak* to answer it; His *voice* was silent because there are some problems words can never explain; they only confuse. But He did answer. He answered in His silence before the accusers in the judgment hall; He answered as uncomplainingly He bore mocking, humiliation, and scourging. He answered in unresisting submission as men stretched Him on the cross and nailed Him there then lifted

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Adventists Colleges Hold Master Planning Conferences at AU

Administrators and faculty members from the 13 Seventh-day Adventist colleges in North America met at Andrews beginning August 11 for conferences designed to promote coordinated efforts among the colleges.

The Seminar on Academic Masterplanning attracted approximately 80 board chairmen, college and university presidents, academic vice-presidents and academic deans, business officers, and directors of institutional research. The conference ran through August 13 and concentrated on plans to standardize financial and academic record-keeping in all the colleges.

Correlating the religion courses of the 13 colleges was the goal of the 36-member Committee for Coordination of Bible Teaching in Higher Education, which met August 11 to 18. The committee, made up of college religion department chairmen and administrators from Adventist world headquarters, met to coordinate undergraduate religion courses with those taught at the Theological Seminary at Andrews. Certain courses will be inserted into the undergraduate curriculum for theology students at each college in preparation for their graduate studies at AU.

The college administrators have been for several years in the process of developing coordinated master plans for all North American Seventh-day Adventist institutions of higher education. For this session, consultants in the planning field were brought in to work with the committee on specific problems facing administrators.

Resource personnel included Lewis B. Mayhew, professor of college administration, curriculum, and instruction at Stanford University; James Doi, dean of the College of Education at the University of Rochester; and William Jellema, director of the Study of Independent Higher Education in Indiana.

AU SEMINARY AND LLU SCHOOL OF HEALTH SPONSOR JOINT PROGRAM

A joint program offering a master of divinity and a master of science in public health has been established by the Theological Seminary at Andrews and the School of Health of Loma Linda University, according to Dr. Walter F. Specht, professor of New Testament at the seminary and adviser for students in the joint program.

The World Health Organization, noted Specht, defined health in 1946 as "a state of complete physical, mental, and social well-being." This recognition of health as more than the absence of disease and including more than the physical body, Specht feels, makes evident the need for usefulness of the minister on the public health team. This need was also recognized, he said, by the American Medical Association when it formed its Committee on Religion and Health. The program in church health education offers the gospel minister opportunity to supplement his professional preparation with information and skills essential for the promotion of total health in his church and community.

Dr. Specht outlined the course, which consists of eleven quarters and leads to the two degrees, as follows:

1. Eight quarters are completed on the Andrews University campus. During these eight quarters, the student meets all requirements of the core course except Field School of Evangelism, and for electives takes the following courses accepted by LLU toward the MSPH degree.

| | |
|--|-----|
| G 522 Concepts in Physical Fitness | 2 |
| G 523 Human Physiology | 2-3 |
| G 524 Methods in School Health | 2 |
| G 525 Basic Nutrition | 2 |
| CM 608 Seminar in Physician-Minister Relations | 3 |

2. During a summer quarter the student participates in a Field School of Evangelism near Loma Linda during which time he takes the course Foundations of Church Health Education. The other three courses here listed are given in a post-summer ses-

sion of four weeks (1974: Sept. 4-27; 1975: Sept. 3-26).

| | |
|---|---|
| CM 544 Field School of Evangelism | 7 |
| HLED 558 Foundations of Church Health Education | 3 |
| HLED 401 Philosophy of Health | 1 |
| HLED 474 Home Health Care | 2 |
| NUTR 427 Special Topics in Nutrition | 1 |

3. An additional two quarters of 14 credits each must be taken on the campus of Loma Linda University where the following courses are completed:

FALL QUARTER

| | |
|---|---|
| HLED 541 Principles of Health Education | 3 |
| HLED 542 Health Education in Community Programs I | 2 |
| HLED 563 Communications Media in HLED I | 2 |
| HADM 503 Organizational Behavior | 2 |
| PHCJ 401 Fundamentals of Public Health | 4 |
| PHCJ 601 Public Health Seminar I | 1 |

WINTER QUARTER

| | |
|---|---|
| HLED 543 Health Education in Community Programs II | 3 |
| HLED 564 Communications Media in HLED II | 2 |
| HLSC 576 Physical Fitness Technology II (or equiv.) | 3 |
| NUTR 421 Public Health Nutrition | 3 |
| PHCJ 602 Public Health Seminar II | 1 |
| HLED 651 Seminar in Health Evangelism | 2 |

4. All requirements for both degrees must be met within six years counted from the first registration at the Seminary for work toward the degree.

5. A G.P.A. of 2.00 or better must be obtained for all course work required for the MDiv degree, but a G.P.A. of 3.00 must be earned for all courses accepted for the MSPH degree which includes the electives listed under No. 1 above and the following two courses of the MDiv program:

| | |
|---|---|
| CM 542 Ministry of Healing | 3 |
| CM 515 Church Organization and Administration | 4 |

6. The student must petition the transfer of all courses taken at Andrews University for which credit is sought in the MSPH degree program. The petition must be accompanied by an official transcript.

Bachelor of Social Work at Andrews

360 Hours of Field Work Required with Community Agencies

A new curriculum leading to the professional degree of bachelor of social work (BSW) will begin at Andrews University this fall, according to Reger Smith, A.C.S.W., coordinator of the program and assistant professor of behavioral science.

He noted that in the past, many positions in social service were open to "just about anyone interested in people, regardless of his major. But in today's tightening job market, the graduate with the BSW degree will have the advantage of this professional training."

The new program offers social work courses beginning with the freshman year and continuing through the senior year, when 360 hours of field work are required with community social work agencies near AU. This field education will be that of an "intern" social worker whose eight-hour day will be under the supervision of professional social service personnel, said Dr. Robert Kistler, chairman of the behavioral science department.

Andrews has previously offered social work courses and was one of 200 colleges nationwide with a social welfare concentration approved by the Council on Social Work Education (CSWE), the national organization of social workers which sets up accreditation procedures and standards.

"However," said Kistler, "the new curriculum is much more specialized to provide a young worker with the job skills he'll need in a competitive job market. In addition, students holding a BSW degree from a CSWE-approved college can often complete work for the master of social work degree in one year instead of taking the usual two-year course."

Impedance Audiometry Testing Among New Services at AU

A hearing test that requires no response from the patient is among three new services added to those available at the Speech and Hearing Clinic on the campus of Andrews University.

The additions include the impedance audiometer, an objective tester of the middle ear function and general hearing ability; hearing aid selection and analysis; and classes in lip reading and auditory rehabilitation.

The clinic, located in Bell Hall at AU, is the only such facility in southwestern Michigan to provide speech pathology and audiology services. Work with patients is done on a fee basis and is available to any speech or hearing impaired individual.

The new kind of audiometer is "a major improvement in hearing testing," said Roy Anderson, assistant professor of speech pathology at the university and director of the clinic. "Most testing requires the patient's response to sounds from the testing equipment or the audiologist, and this procedure is still valid in the majority of cases.

"However," he continued, "it is mostly guesswork to know how much response we are getting from infants and small children, people with profound hearing impairment, and the severely retarded."

The new machine disposes of this problem because no response is required on the part of the patient.

A set of earphones is placed on his head, and sound waves from the equipment measure the movement of the ear drum and the distance to the ear canal. The information passed back to the gauges of the device indicate to the audiologist if there is dysfunction of the middle ear and the probable cause of that dysfunction.

Another of the new provisions is a complete sampling of the hearing aids offered in Berrien County. Because of the availability of the aids

to them, the clinic's specialists are able to prescribe a particular type of aid for a specific hearing problem.

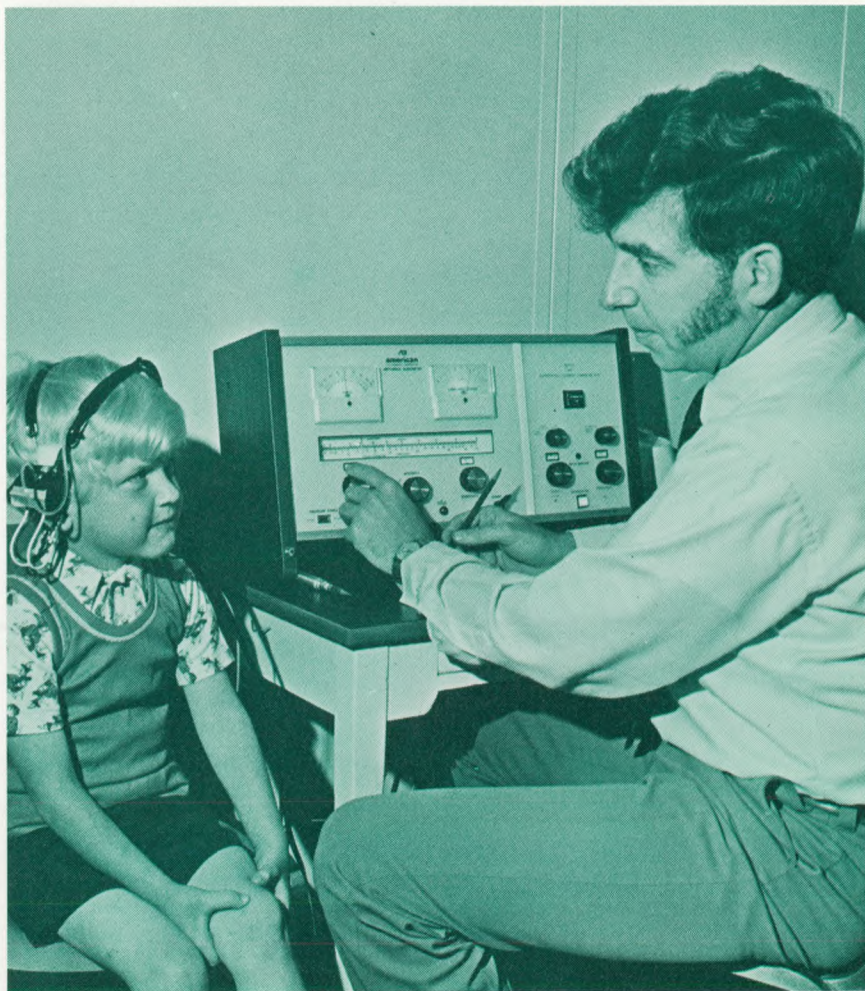
Hearing aids currently being used by patients can now be tested also to see if they are operating properly and are capable of correcting the patient's hearing disability.

The proposed new classes are aimed at adults with hearing problems and will be devoted to training patients to hear as well as is possible with their particular hearing problem, and to read lips.

"Lip reading is a form of hearing,

too," commented Anderson, "but it is done with the eyes."

Three specialists currently staff the speech and hearing clinic at AU. They are an audiologist, Dr. Joyce Richardson, assistant professor of communications at AU, who holds a PhD in audiology from Ohio State University; a speech pathologist, Lynn B. Scott, who is completing an MS degree in speech pathology at Western Michigan University; and Anderson, who is both a speech pathologist and audiologist and who holds master's degrees from Western Michigan University in both fields.



Roy Anderson, director of the speech and hearing clinic at Andrews, tests the hearing of his son, Steve, with the facility's new impedance audiometer. The instrument tests the function of the middle ear in an objective way in which the patient is not required to make any response to sounds from the testing equipment. The method is especially useful for testing patients from whom it is difficult to elicit a response, such as infants and small children, people with profound hearing impairment, and the severely retarded.

TEMPERANCE EVANGELISM SEMINAR ENROLLS 22 FOR SUMMER COURSE

Contrary to much public opinion, temperance refers more to what a person does than to what he doesn't do, said E. H. J. Steed, temperance secretary of the General Conference and guest lecturer at Andrews, June 17 to July 12.

Steed conducted a course in "Temperance Evangelism for Pastor and Layman" at the Seventh-day Adventist Theological Seminary. This year is the first time such a course has been offered at the seminary, but Steed believes the course should be repeated both at the Berrien Springs campus and at AU's extension schools overseas.

Enrolled in the course for four quarter credits were 22 seminary students, pastors, publishing house executives, chaplains, and laymen.

Steed noted, "Most people misunderstand temperance. They somehow equate it with the opposite of intemperance and believe it means 'we don't drink, we don't smoke, we don't use drugs!'"

"That's not it!" he declared. "Temperance is not what you give up, but what you take on—a positive, powerful, spiritual program of self-control through Christ. The Bible says very little about health," he said, "but it says a great deal about temperance, the foundation of health."

"The emphasis of our temperance message to the world," said Steed, "should be that when we choose to bring Christ into our lives and when, through entire dependence on Him we work in harmony with divine and natural law, the result is balanced, sanctified living. The outcome of temperance is life, health, and character."

Commenting on righteousness by faith in Christ, he said, "We cannot eat or drink our way to heaven, but through self-control that He gives us, we can eat and drink to the glory of God. This is practical godliness."

The course was designed to reveal temperance as a truly evangelistic means. "It set forth principles and programs for a united church ministry for and by young and old in any part of the world," said Steed.



Twenty-two students enrolled in the first temperance course offered by the SDA Theological Seminary. Lecturer for the course was Elder E. H. J. Steed (sixth from right), temperance secretary of the General Conference of SDA's. The course covered such areas as the theology of temperance, evangelistic temperance programs, scientific data concerning alcohol and drugs, and educational aids for pastors and laymen.

Church Role in Alcohol and Drug Abuse

"Often the churches are entirely too simplistic in their approach to drug and alcohol abuses, telling a person to pray over his problems and then neglecting to work with him further personally," said Dr. Winton Beaven in a lecture at Andrews University.

Beaven, vice president of Kettering (Ohio) College of Medical Arts, was one of several speakers who addressed themselves to the role of churches in alcohol and drug problems during the Seminar for the Prevention of Alcohol and Drug Dependency held at the university June 24-28.

"Most drug abusers are alienated from society," he stated, "and that alienation comes before the drug use. The churches should be a bridge for many potential users by providing a warm and understanding fellowship for all people, and this might stem some of the alienation."

Continuing with this thought was Dr. Tom Shipp, pastor of the Lovers Lane Methodist Church of Dallas,

Texas, which has a membership of 8,000, of whom 600 are recovered alcoholics.

"Don't start 'helping' an alcoholic by judging him—you'll never be able to communicate with him then," commented Shipp, who has worked extensively for many years with rehabilitation programs for alcoholics.

He went on to say that "many churches fail when they try to convert a person and straighten out his life without first removing the chemical he is depending on."

Before a church can become involved in prevention and rehabilitation programs, the members themselves should be educated about temperate living, stated Milo Sawvell, seminar director and executive director of the National Committee for the Prevention of Alcoholism and Drug Abuse.

"Temperance is a rather old-fashioned word," interjected E. H. J. Steed, executive director of the International Commission for the Pre-
More, page 10

Communications Course Given at Seminary

"Perspectives in Communication," a course designed to familiarize ministers and laymen with effective methods of communication in the work of the church, was taught at the SDA Theological Seminary at Andrews during the second session of the summer quarter this year.

The course attracted 33 students who received four hours of seminary credit for their work. In addition to the usual reading and test requirements, each student developed a project in which he set up a suitable communications program for a church organization, such as a conference, school, local church, hospital, or evangelistic campaign.

Director for the course was Elder

Church Role

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vention of Alcoholism. "What it means is simply self-control. If a person has control of himself through Christ, alcohol and drug abuse won't be a problem."

Shipp also indicated that churches can provide information on the results of alcoholism. "Knowledge won't keep a person from letting drinking become a problem, but at least he'll know the risks involved."

Beaven pointed out that "most drug users have very low self-esteem, and they generally have very superficial human relationships. Both of these problems can often be observed before the drug abuse begins."

"By its presentation of the Gospel, the church can show people the high esteem which God has for them, and it can strengthen and deepen their relationships with other people," he went on.

Drug abusers, said Beaven, "are a result largely of the habits and attitudes of their parents, but other adults have effects, too. Many adults today go around with hang-dog looks on their faces, griping, complaining, and criticizing; and we're setting the climate for the kids to become discouraged and to find outlets through chemicals."

If we'll get the right attitude, it will be infectious, and we might be able to prevent some drug problems in the future."

E. W. Tarr, the former secretary of the bureau of public relations of the General Conference of SDA's. Assisting him was the coordinator, Elder Victor Cooper, associate secretary of the GC communication department. Other instructors were Elder Walter R. L. Scragg, secretary of the communication department, and associate secretaries Miss Carol Hetzell and Elder Marvin H. Reeder.

Guest lecturers included Paul Nelson, an SDA who is the president of Harry G. Willis and Associates, an advertising agency in Arlington Heights, Illinois; Philip Ault an editor of the *South Bend Tribune*; and Dr. Robert Yingst, acting chairman of the department of communication.

The course was divided into four

units with the first being devoted to the theory and practice of communication. This study gave students some background for the material they would be introduced to later. The second week covered public relations, publicity, news writing, and advertising.

Radio and TV and their use in the service of the church were the subjects of the third unit. During this time, the students visited WAUS, the AU stereo FM station, and a local TV station. They also were taught how to prepare scripts for broadcasting.

During the last week of the course, students concentrated on audio-visual materials and the preparation and use of photojournalism, motion pictures, and videotapes.



Dr. Otto H. and Dorothy K. Christensen have delivered cash and securities to the university of \$5,000 or more for the purpose of establishing an Otto H. and Dorothy K. Christensen Endowed Scholarship, according to AU President Hammill.

Both Dr. and Mrs. Christensen are alumni of Andrews and both have been on the faculty of the university for a number of years—Dr. Christensen as professor of religion and Mrs. Christensen as associate professor of the home economics department.

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Science Equipment Obtained Through Grants and Discounts

The National Science Foundation has awarded the Andrews University biology department a matching grant of \$2800 toward the purchase of environmental measurement equipment for use in the ecology laboratory.

The NSF has also given the AU chemistry department an \$1800 matching grant toward purchase of an infrared spectrometer for use in organic chemistry and qualitative organic analysis classes.

In addition, the chemistry department will soon obtain a Coulter counter at one-eighth of its original \$8,000 cost for use in bacterial research studies being conducted by Dr. George Javor, associate professor of chemistry.

The counter is a high-speed unit used to determine the number and size of cells, and will measure thousands of bacteria in a microscopic sample within a minute.

Dr. Javor, who is studying the relation of the cell membrane to RNA synthesis, has been performing bacterial counts visually through a microscope. He said the Coulter counter will enable him to count a larger number of organisms, thereby increasing the reliability of his results.

He noted the counter may also be used in algae counts on the St. Joseph River, part of the pollution research being conducted by Dr. Gerald E. Snow, assistant professor of biology at AU.

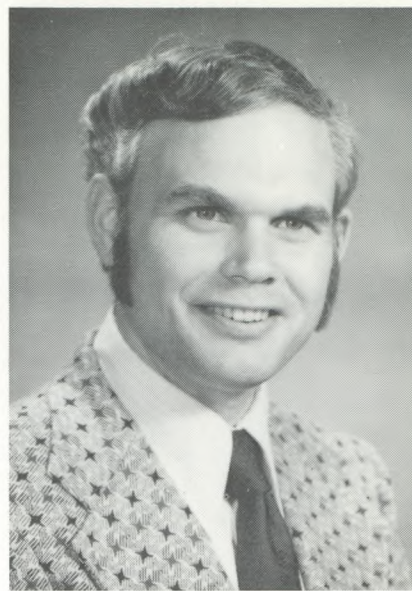
Dr. Snow, who teaches ecology courses at the university, said the \$2800 NSF matching grant will purchase such items as a solar radiation recorder for measuring the amount of energy coming from the sun to a particular point, a similar unit that can easily be used in such situations as a growth chamber or directly under a leaf, an instrument to measure soil moisture, stereo zoom microscopes, and equipment to measure leaf temperatures, soil temperatures, and animal temperatures.

The equipment will be used by upper division classes, in research projects by college and graduate students, and for demonstrations in the

class "Environmental Biology and Conservation," which Dr. Snow teaches for the non-science student.

According to chemistry department chairman Dr. Robert Wilkins, the infrared spectrometer toward which the NSF is giving an \$1800 matching grant will be a unit that is relatively easy to use and will provide "hands-on" experience for students.

The machine provides a spectrum that identifies the molecules in the sample being tested. "Every compound has a unique infrared spectrum," explained Wilkins, "just as every person has a unique fingerprint."



Dr. John F. Stout

AU Professor Receives West German Research Award

Dr. John F. Stout, professor of biology at Andrews University, has been granted a Senior U.S. Scientist Award by the Alexander von Humboldt Foundation headquartered at Bonn, West Germany.

The award is equivalent to a research fellowship and will enable Stout to engage in nine months of research on the physiology of behavior at the Max Planck Institute for Behavioral Physiology near Munich from March to December, 1975.

He will work with Dr. Franz Huber, one of the directors of the institute, in studying the way the nervous system controls behavior and specifically how acoustic stimuli are recognized and understood.

"Although we are studying this in simple animals," said Dr. Stout, "the processes appear similar to word recognition in humans."

The Humboldt Foundation makes a number of Senior U.S. Scientist Awards under a special program begun in 1972 "to honor American scientists who have gained an international reputation and to intensify cooperation in specified fields between German and American research institutions." The program is

funded by the government of the Federal Republic of Germany.

Nominations for awards must be initiated by German research institutions. According to the Humboldt Foundation, the awards may be made only to scientists whose research work has brought them worldwide recognition.

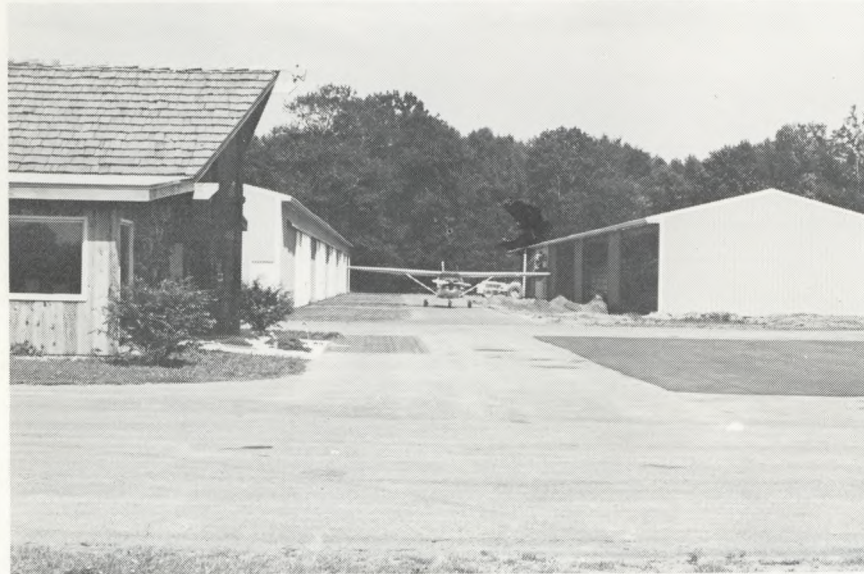
Dr. Stout has written a number of articles for scholarly journals and has presented seminars at Oxford, Cambridge, and Glasgow Universities in Great Britain; the University of Cologne and Max Planck Institute for Behavioral Physiology in West Germany; and the University of Groningen in Holland.

The major goal of his various studies has been to understand communication and how it operates (for which he has received government grants totaling \$240,158). In the case of seagulls, he is attempting to identify behavior and communication patterns which contribute to a stable structure in their society. Because of this goal, he examines the gulls in their natural environment rather than in a laboratory, studying them in Michigan, Texas, Washington, Alaska, and along the east coast.

Airport Adds Second T-Hangar

Space for ten additional privately owned airplanes will be provided when a new T-hangar is completed at the Andrews University Airport, according to Andy L. Moore, airport manager.

Moore recently received his aircraft



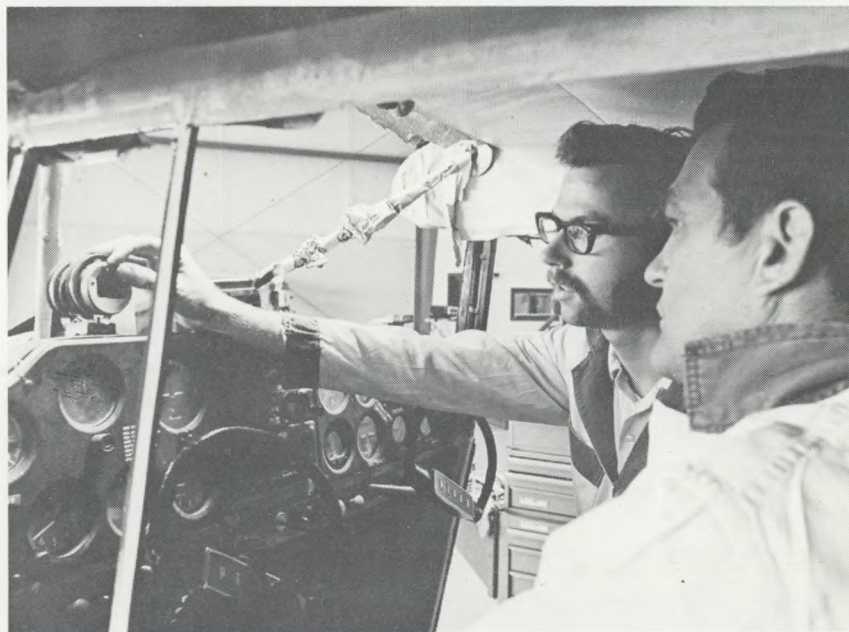
Below: A \$20,000 office building (left foreground) and a \$35,000 T-hangar (right) have been added at the Andrews University airport. The 10-bay hangar is similar to one previously completed at the airport (left rear) and will provide additional space for private pilots in the area who wish to house their planes at the Berrien Springs facility. The office includes administrative offices as well as study booths for flight students.

inspector rating from the Federal Aviation Administration which qualifies him to do the annual aircraft inspections required by the FAA.

Increased work for the airport repair shop is enabling the university to accept more students in the aircraft repair and maintenance training program offered there, said Moore. The aviation maintenance technician program currently enrolls seven students.

The new T-hangar, the second one to be built at the airport, is 290 feet long by 70 feet wide and 20 feet high at the apex, and will have electrically-operated bifold doors. Cost of the structure is \$35,000. According to Moore, all 10 bays in the hangar have already been reserved by local pilots who own their own planes, and several persons have asked the airport to construct a third such hangar.

Also recently completed at the airport is a new office building, a 50-foot by 25-foot addition to the shop building. The \$20,000 cost of the office building was met by donations arranged by the Andrews University Advisory Council.



Andrews University airport manager Andy Moore (right) and shop foreman Bill Chapman discuss a new compass being installed in a plane at the university airport. Chapman completed a 30-month apprenticeship program in airframe and powerplant work at the airport and just received his "A and P" license from the Federal Aviation Administration. The license qualifies him to work on aircraft of any type without assistance or supervision.

Commencement Address from page 6

Him up between earth and heaven, the Outcast of the Ages. He answered when, with His expiring breath, He cried with a loud voice, "It is accomplished."

What was accomplished? The awful mystery of sin with all its injustices was confronted with the far more awful mystery and injustice of the cross. The tide of evil was met with the tide of grace. From the cross it flows wider, deeper, stronger than the tide of sin; undoing the baleful results of man's wrong choice, forgiving, cleansing, delivering, restoring. That is heaven's answer to the mystery of sin. The cross is God's great protest, His mighty stumbling block planted firmly in the midst of sin's pathway to death.

Finally, the cross offends self, for it prescribes a way of life that "must leave self behind." It shows self's righteousness to be but filthy rags, its comeliness to be but the vilest corruption. It makes foolishness of its wisdom and stupidity of its cleverness. When self clamors for its own rights, the cross requires that it be silent. When it demands justice, the cross proffers suffering. It throws down self's defenses and leaves it vulnerable to every enemy. When it seeks life, the cross points the way through death. It permits no compromise; it empties self; it desolates it. This, the offense of the cross to self, is its greatest offense.

But it does all this that it may

give us back a self, forgiven and purged, renewed, and sanctified. It is from the cross alone that such forgiveness and cleansing can come. And from it, too, let us never forget, because of the victory won there, comes the Holy Spirit with its renewing and sanctifying grace to "plead the truth, and to make
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Seminarians Study Techniques In Church Administration

A summer class in church administration at the SDA Theological Seminary involved some 60 students in a mini-management course followed by an exploration of ways actually to involve laymen and church officer groups in the work of the church.

The class, taught by Dr. John D. Rhodes, ministerial secretary of the Southeastern California Conference, was designed "as more of an experiential program than a typical classroom procedure."

After reading the entire Church Manual, students wrote out their own job descriptions for church officers in their particular churches. With the philosophy that if one fails to plan, he can plan to fail, each student also wrote a paper analyzing the scope and resources of a certain real or imagined church, outlining a three-to-five-year plan of operation that included some realistic goals and steps by which the goals could be achieved.

An especially interesting day was when a student played the role of a certain inefficient "Pastor Clark." About five other students played the part of fellow ministers who acted as "Job's comforters" to try to help him understand why his church had failed. "Pastor Clark's" confession of the things he'd tried were handed out as a ten-minute reading assignment before the students participated in this animated skit.

All students visited at least one non-Adventist church in the area and after an in-depth interview with the pastor, brought back, via an oral report and student handouts, a resume of what he had learned. Students also attended local Adventist church or school board meetings as observers.

"How to Face the Summer Slump" was a special project that challenged the class. Ideas from all the papers were collated into a whole and redistributed to the students.

As the major class project, each student organized into an orderly file-plan the scores of handouts distributed by the instructor. These,

with reading note cards on the text and on professional books and journals, were evaluated as a means of determining how well the student could organize his work.

Dr. Rhodes reports that reaction to the class was very positive and that students "left with a new enthusiasm for and romance with the ministry of Jesus Christ."

Textbook used in the class was *Success Secrets for Pastors*, written by Dr. Rhodes.

Commencement Address

from page 12

reply to every argument of sin." What a desolate life the Spiritless life is! How dark the citadel of the soul when we try to hold it alone! How frequent and ignominious our defeats! On the other hand, how glorious the victory, how sweet the liberty, when the Holy Spirit fills the life, when self is dead and Jesus holds the soul's fortress unchallenged.

Graduates, we face a world in desperate need of what we have to impart. What kind of people are we going to be? Of the world, or in it but not of it? Walking our own proud path, or choosing heaven's humble road? Putting up barriers where the cross has broken them down, or helping to make all men one in Christ? Shrugging off our responsibility to our neighbor, or giving ourselves in service for all mankind? Drifting down sin's dark river, or meeting its evil tide with God's abounding grace? Saving ourselves, or losing ourselves for Christ's sake? What are we saying to the world?

I challenge you then to take to your hearts this blessed, offending cross. Do not be afraid of it. Out of what appears humiliating defeat comes the victory that makes you more than conquerors. It devastates only to enrich, it puts to death only that it may give a new life, it throws down your defenses only that it may impart an invincible inner strength. It lifts you up all alone that it may give you a new and wonderful fellowship — with your Master in His sufferings and in His service. Take it to your hearts; then you will be saying something to the world and the world will listen.

Today the emphasis is upon selfless service. But tomorrow when time's book is closed it will be on destiny. I challenge you to be worthy of it!



Dr. John D. Rhodes, ministerial secretary of the Southeastern California Conference directs a project for a few of the 60 seminarians who enrolled in his class in church administration, summer, 1974.

New Graduate Courses For Pastors and Workers

Teaching pastors and other church workers the principles and techniques involved in conducting human relations workshops is the goal of two new graduate level courses to be offered the winter and spring quarters of the 1974-75 academic year at Andrews.

Directed by Dr. Charles C. Crider, professor of sociology at AU, the workshops, he notes, are not just lectures or "rap" sessions, but use the dynamics of group relationships to open up channels of communication. They are adaptable to groups of various sizes and deal with such areas as family relations and race relations.

Text for the classes is *The Theory and Practice of Conducting a Human Relations Workshop*, prepared by Dr. Crider. It uses the theoretical basis from the professional literature of the area and the practical applications he has developed.

SWISS BELLS AND "SESAME STREET" PUPPET FINANCE SEMINARY EDUCATION FOR PASTOR

By SHARON LEACH

Grover and the Ding-a-ling have made it big around Andrews University during the last two years.

Grover is a scruffy, gravel-voiced, but very sincere puppet who stars on the "Sesame Street" television show. The Ding-a-ling is John Aitken, an SDA evangelist who will graduate in December, with a master of divinity degree from the Theological Seminary at Andrews.

Aitken has supported himself and his family for the past couple of years by playing his rare set of Swiss hand bells for clubs and civic groups in southwestern and south-central Michigan.

"A Swiss bell ringer boy, that sounds pretty dull!" is the reaction of a lot of people, said Aitken, when they first hear about his act. But the reactions are quite different when they see him performing.

Most bell-ringers play tunes using one bell at a time, but Aitken can ring six bells at one time in chords, making music of regular tempo. "Only about half the act is bell-ringing," he laughs. "The other half is comedy, singing, and gymnastics—because I drop the bells a lot!"

Grover has the same personality as on the TV program and, through Aitken's ventriloquism, the same distinctive voice. He tries ringing the bells, but with disastrous results, so he sticks to singing and talking to the audience. "The kids love it, but I think the adults enjoy it even more," comments Aitken.

The 13 bells are quite rare. Cast in bronze, they've never lost their pitch in the 18 years Aitken has had them. A German bellsmith cast them as miniatures of the bells he made for steeples in several European countries. He also created the bells used today in Westminster Abbey.

In 1958, the Aitkens (John's parents and family, then missionaries in Switzerland) spent several weeks in the U.S., and the two boys, John and Jerry, in their embroidered Swiss jackets and caps, performed at the Adventist General Conference session in Cleveland, then on local TV



Grover and the "Ding-a-ling," also known as John Aitken, carry on a deep conversation during one of their performances. Grover, the puppet who performs with the Swiss bell ringer, is "Sesame Street" star of television.

stations there, and finally on the nationally-televised "Tennessee Ernie Ford Show."

When it came time for high school and college in the States, John and Jerry had to split up their "act," and John kept the bells because he could play by ear and his brother couldn't. "That's when I started my act to pay school bills," he said. "Incidentally, Grover took Jerry's place." Aitken has a broad repertoire and, since he plays by ear, can perform just about anything requested by his audience.

Aitken wears the original hat and jacket his parents bought for his first U.S. performances in 1958. The hat still fits, but the jacket has become quite snug, and the sleeves have been slit to accommodate his arms.

"It sounds crazy," he says, "but I'm really a traditionalist about my act. Besides, you should hear the audience when I come bouncing on stage in this outfit!"

Aitken's professionalism has enabled him to have two or three book-

ings each week, and last December he put on 40 performances.

He is rare among bell-ringers in the world because he uses taped orchestra accompaniment and must be perfectly synchronized with it. He also uses voice-over recordings so that he sings all parts of a quartet. Recordings also provide a way for him and Grover to sing duets.

Aitken was previously an evangelist in Montana; and he has returned there to pastor the Seventh-day Adventist church in Butte.

He plans to continue playing his Swiss bells. "I think it's good," he comments, "for people to see that a Christian, and in particular a minister, is not a stuffed shirt, but can have a good time."

THE FIFTH TRUMPET

Locusts and Scorpion Men

Research paper by PAUL LIPPI, Theology Graduate

Thesis

John the Revelator doesn't let his own imagination run unbridled when he depicts invading hordes of locust-cavalry from the underworld at the blast of the fifth trumpet. Rather, he reworks a time-honored image which could be appreciated by his contemporaries. Locust swarms, scorpion-men, and the sirroco wind were familiar symbols of destruction in ancient Oriental thought. The development of these images can be traced in the various cultures of the ancient Near East through a span of over two thousand years. It is necessary to see how the sirroco, locusts, and scorpion-men are associated in order to correctly understand the vision of John.

Translation

The following is my own translation of the passage under investigation, Rev. 9:1-11:

¹And the fifth angel blew the trumpet, and I saw a star having fallen from heaven unto the earth, and the key of the shaft of the abyss was given to him. ²And he opened the shaft of the abyss, and smoke rose up from the shaft like the smoke of a great furnace, and the sun and the air were darkened from the smoke of the shaft. ³And from the smoke came locusts upon the earth, and power was given to them like the power the scorpions of the earth possess. ⁴And they were told that they should not hurt the grass of the earth or any greenery or any tree, except the men who do not have the seal of God on the forehead. ⁵And they were not given permission that they might kill them, but that they should be tortured five months, and their torture is like the torture of a scorpion when it stings a man. ⁶And in those days men shall seek death and they will by no means find it, and they will long to die and Death will flee from them. ⁷And the appearance of the locusts was similar to horses prepared for battle, and on their heads things like headdresses similar to gold and their faces were like men's faces. ⁸And they had hair like women's hair, and their teeth were like lion's. ⁹And they had thoraxes like iron breastplates, and the noise of their wings was like the noise of many war-chariots and horses rushing into battle. ¹⁰They have tails similar to scorpion's and stings, and their power to hurt men five months is in their tails. ¹¹They have a king over them, the angel of the abyss, his name in Hebrew is Abaddon and in Greek he has the name Apollyon.

Mesopotamian Background

Locusts and scorpion-men were part of the thought world of the earliest civilizations known, which appeared in Mesopotamia. Locusts were a symbol of destruction in Sumerian imagery.

The possessions of Ur are devoured as by a "heavy swarm of locusts." Sulgi boasts of making the enemy "eat bitter dust like an all-covering locust," and of cutting down the enemy with throw-sticks and sling-shots "like a locust."¹

From the early part of the 3rd dynasty of Ur, ca. 2500, we have scorpion-men pictured on the sounding box of a lyre. At the royal cemetery the fragments of a decorated stringed instrument were found. One end of the resonating box displays some shell-inlay work. In the fourth register is a composite creature standing erect. From the waist up he looks like a man; from the waist down he looks like a scorpion.²

In the Babylonian creation story scorpion-men are

numbered among the evil agents of the primordial dragon Ti'amat.

She set up the Viper, the Dragon and the Sphinx,
The Great-Lion, the Mad-Dog and the Scorpion-Man,
Mighty lion-demons, the Dragon-Fly, the Centaur.³

In the Babylonian flood story, the hero, Gilgamesh, finds scorpion-men guarding the underworld.

When he arrived at the mountain range of Mashu,
Which daily keeps watch over sunrise and sunset—
Whose peaks reach to the vault of heaven
And whose breasts reach to the nether world below—
Scorpion-men guard its gate,
Whose terror is awesome and whose glance is death.⁴

A scorpion-man is also pictured on a boundary stone of the Babylonian king, Nebuchadnezzar I, ca. 1200.⁵

Ugaritic Background

Ugarit was a kingdom located on the coast of what is now Syria. It was completely destroyed by the invading Sea-Peoples about 1200 B.C. A large corpus of cuneiform tablets have been excavated. The wedge-shaped signs are not syllabic as in Mesopotamia, but alphabetic. The Ugaritic language and poetic style are closely related to biblical Hebrew.

In the Ugaritic legend of King Keret, locusts are a simile for multitude. This phrase describing the marching of the people recurs several times:

like the locusts that dwell on the steppe,
like the grasshoppers on the border of the desert.⁶

We want to note that the locusts are associated with the desert.

The name of the most popular Ugaritian god was Hadad, but he was ordinarily referred to as Ba'al, meaning "lord" or "master." This is just as in Hebrew, the name of God is Yahweh, but he is reverently called Adhonai, meaning "lord" or "master." Among his other functions, Ba'al-Hadad was the god of fertility. In the myth of Ba'al and the Devourers we see another aspect of the locust imagery. Brackets indicate where the text is defective.

Ba'al shall go and hunt
he shall hasten to the edge of the desert
and oh, he shall come upon the Devourers,
yea, he shall light upon the Voracious Ones.
Ba'al verily desires them
Dagon's son covets them
Ba'al approaches them with his feet
Yea, the god Hadad with his legs
His back they seized
and destroyed those who went in
seized the Devourers like [
they fell in the thicket,
The force of their fronts in burning
in the loins there is fever.
His horns like [
he, like burnings [⁷

Here Ba'al is sexually attracted to the Devourers (locusts) and has relations with them. This myth explains two natural phenomena: why locusts multiply so fantastically, and why vegetation has no strength to sur-

vive the locusts. It is because the fertility god Ba'al has exhausted himself sexually with the locusts. For this reason the locusts are fertile, but the plants die.

Notice that as in the legend of King Keret, the locusts come from the edge of the desert and that they are associated with burning.

In another Ugaritic composition, the Myth of Ba'al, we have the earliest record of what the sirroco meant to the ancient Near Easterners. At this point I must explain that the sirroco is a seasonal meteorological phenomenon, a hot easterly wind off the desert. Sirroco is an Italian word that English has borrowed for this condition. The Arabs call it *hamsin*, their word for fifty. "The term was originally at home only in Egypt where this wind was supposed to blow during the fifty days following Coptic Easter."⁸ A modern traveler describes the force of the sirroco off the Sahara desert thus:

... the desert khamsin, which brought a blast of silica fog, brown, impenetrable, choking. The wind-slick sand stuck to the road like snow in a blizzard. Dust from the storm rose to 5,000 feet, and Sahara particles were picked up days later by air filter planes over Central America.⁹

While the sirroco affecting Ugarit blew off the Syrian and not the Sahara desert, it is still sufficiently strong to knock over people and animals, carry away tents, collapse buildings and uproot trees. It also has a severe biological effect.

Even a normal healthy person finds the sirroco hard to endure. Besides nervousness and headaches it may have far worse effects: inflammation of the mucous membranes, fever, malaria, dysentery, sunstroke, heart-attack and even death. Nature itself suffers, too. At this time of the year the agriculture is extremely vulnerable. Especially if the latter-rains fail to come in time even a few days of sirroco suffice to do grievous harm to the standing corn. After only three days of heavy sirroco the blossom or the setting fruit of the vine and the olive-tree may wither and fall off. Anyhow the sirroco scorches the annual flora so that the landscape turns yellow and desolate almost overnight. Moreover, the easterly winds of spring often carry along swarms of desert locusts that are particularly harmful to the fruit trees and may even cause the death of infants.¹⁰

The Myth of Ba'al describes the coming sirroco in mythopoetic terms.¹¹

The winds from the east invaded the [] those from the east.
The heights of the earth verily rocked.
The foes of Ba'lu seized the forests,
the enemies of Haddu the slopes of the mountain.
And Ba'lu the Almighty answered:
"Foes of Haddu, why do you invade?
Why do you invade, armour-bearers of the Place of Perdition?"
Ba'lu viewed the east,
his hand shook violently,
the fir pole in his right hand.
Thereupon Ba'lu returned to his mansion.
"Should either king or commoner
establish a territory of dominion for himself?
I must send a scout to the son of Ilu Môtu,
a messenger to the Beloved of Ilu, the Warrior.
Should Môtu want to invite (me) into his throat,
the Beloved want to hide me in his tunnel,
I alone am he who will be king over the gods,
who will fatten gods and men,
who will satisfy the multitudes of the earth!"
Aloud Ba'lu cried to his lads:
"Look, Gupanu and Ugaru!
The sons of Concealment veil Yamu
the sons of Darkness the Exalted Sovereign,
the wings of the breeze are dust-coloured!"¹²

Later on the text continues:

The luminary of the gods, Sapsu becomes dust-coloured, the sky is soiled by the Beloved of Ilu Môtu.¹³

Notice that the winds come from the east. Either the clouds of dust or the mass of locusts obscures the Sun

(or at least Yamu, personified daylight). Ba'al anticipates that Môtu (personified death) will invite him into his throat (the underworld entrance). Eventually he does descend for a season, which causes plant life to wither and die. A final point on the passage, is that Ba'al's foes are called the armour-bearers of the Place of Perdition. The word translated "perdition" has the same root as the Hebrew. Both come from the verb meaning "he perished." The Hebrew noun from this stem is found transliterated in Rev. 9:11—"Abaddon!"

Hurrian Background

From the excavations at Tel Halaf come large statues of Scorpion-Men. Functioning as guardians of sacred areas, these composite creatures have human heads, lion-like bodies, bird-wings and scorpion-tails.¹⁴

Old Testament Background

The ideas of locusts, scorpion-men and the sirroco in Mesopotamian, Ugaritic, and Hurrian art and literature are the setting for the three motifs in the old Testament. We cannot demonstrate any direct connection between these cultures of the ancient Near East and the Apocalypse. John utilizes the images of locusts and sirroco as he found them in the Old Testament.

First we will examine the motif of the sirroco, the hot east wind, as it occurs in the Old Testament. Ezekiel 17 contains an allegory in which a vine represents King Zedekiah of Jerusalem and an east wind represents Nebuchadnezzar of Babylon. Verse 10 reads:

Will it utterly wither when the east wind strikes it—
wither away on the bed where it grew?¹⁵

Hosea 13:15 compares the doom of Israel to a plant killed by the sirroco.

Though he may flourish as the reed plant,
the east wind, the wind of the LORD, shall come,
rising from the wilderness;
and his fountain shall be dry,
his spring shall be parched;

The verse preceding, Hosea 13:14, associates the east wind with personified death. The Hebrew word for death is the same as the Ugaritic; we have the same association as in the Myth of Ba'al.

Shall I ransom them from the power of Sheol?
Shall I redeem them from Death?
O Death, where are your plagues?
O Sheol, where is your destruction?

Jeremiah 4:11-13, 20, 23-29 presents the east wind as a judgment against Judah.

¹¹At that time it will be said to this people and to Jerusalem, "A hot wind from the bare heights of the desert toward the daughter of my people, not to winnow or cleanse. ¹²A wind too full for this comes to me. Now it is I who speak in judgment upon them."
¹³Behold, he comes up like clouds, his chariots like the whirlwind; his horses are swifter than eagles—
woe to us, for we are ruined!

²⁰Disaster follows hard on disaster, the whole land is laid waste. Suddenly my tents are destroyed, my curtains in a moment.

²³I looked on the earth, and lo it was waste and void; and to the heavens, and they had no light.

²⁴I looked to the mountains, and lo, they were quaking, and all the hills moved to and fro.

²⁵I looked, and lo, there was no man, and all the birds of the air had fled.

²⁶I looked, and lo, the fruitful land was a desert, and all its cities were laid in ruins before the LORD, before his fierce anger.

²⁷For thus says the Lord, "The whole land shall be a desolation; yet I will not make a full end.

²⁸For this the earth shall mourn, and the heavens above

be black; for I have spoken, I have purposed; I have not relented nor will I turn back."

²⁰At the noise of horsemen and archer every city takes to flight; they enter the thickets; they climb among the rocks; all the cities are forsaken, and no man dwells in them.

The force of the wind is sufficient to collapse tents, it destroys vegetation and blackens the heavens. In fact, the earth is reduced to the state of pre-creation chaos. The two words translated "waste and void" appear in only one other place in the Hebrew Bible—Genesis 1:2. The mention of chariots and horses suggests that locusts may be involved in the destruction along with the sirroco.

Next we will examine the motif of locusts in the Old Testament. In Exodus 10:12-15, locusts are a plague carried by the east wind.

¹²Then the LORD said to Moses, "Stretch out your hand over the land of Egypt for the locusts, that they may come upon the land of Egypt, and eat every plant in the land, all that the hail has left." ¹³So Moses stretched forth his rod over the land of Egypt, and the LORD brought an east wind upon the land all that day and all that night; and when it was morning the east wind had brought the locusts. ¹⁴And the locusts came up over all the land of Egypt, and settled on the whole country of Egypt, such a dense swarm of locusts as had never been before, nor ever shall be again. ¹⁵For they covered the face of the whole land, so that the land was darkened, and they ate all the plants in the land and all the fruit of the trees which the hail had left; not a green thing remained, neither tree nor plant of the field, through all the land of Egypt.

The book of Judges compares the Midianite raiders to locusts in the preface to the story of Gideon.

³For whenever the Israelites put in seed the Midianites and the Amalekites and the people of the east would come up and attack them; ⁴They would encamp against them and destroy the produce of the land, as far as the neighborhood of Gaza, and leave no sustenance in Israel, and no sheep or ox or ass ⁵For they would come up with their cattle and their tents, coming like locusts for number; both they and their camels could not be counted; so they wasted the land as they came in. ⁶And Israel was brought very low because of Midian; and the people of Israel cried for help to the LORD, Judges 6:3-6.

Here the locusts are a simile for multitude, as in the legend of King Keret. The Midianites are mounted warriors, they come from the east and destroy the crops.

Locusts are a potential judgment against Israel, Amos 7:1-3.
Locusts are a judgment against Assyria in Nahum 3:1-3, 15-17.

Again, in Nahum (see above) the locusts are a simile for multitude. The mention of horses and chariots may be ironic, for the Assyrian army was noted for its cavalry and chariots corps.

In Jeremiah's oracle against Egypt, the enemy will be victorious "because they are more numerous than locusts; they are without number." Jeremiah 46:23.

In his judgment against Babylon, Jeremiah compares her enemies to locusts.

¹⁴The LORD of hosts has sworn by himself: Surely I will fill you with men, as many as locusts, and they shall raise the shout of victory over you.
¹⁷Set up a standard on the earth, blow the trumpet among the nations; prepare the nations for war against her, summon against her the kingdoms, Ararat, Minni, and Ashkenaz; appoint a marshal against her, bring up horses like bristling locusts, Jeremiah 52:14, 27.

Joel conceives of a locust plague against Judah as a judgment on the day of the Lord, Joel 4-20.

⁴What the newly matured locust left, the winged locust ate and what the winged locust left, the creeping locust ate and what the creeping locust left, the consuming locust ate.

⁶Because a nation has come up against my earth, mighty and numberless, its teeth are lion's teeth and its jawbone of a lioness.

⁷It put my vine to destruction in judgment, and my fig tree to stump; he certainly stripped it and threw down, its tendrils became white.

¹Blow a ram's horn in Zion, and shout on my holy mountain. All the dwellers of the earth will quake because the day of the LORD is coming, because it is near.

²A day of double darkness, a day of clouds and gloom. Like the dawning light numerous and mighty people are spread out upon the mountains. Whose like has not been from eternity, and after him no one will again be until years of generation and generation.

³In front of him fire consumes, and behind him flame devours, the earth before him is like the garden of Eden, and after him a wilderness deserted, and even of what is spared, there is nothing to it.

⁴His appearance is like the appearance of horses and thus like horses they will run.

⁵Like the noise of chariots they dance on the mountaintops, like the sound of a flame of fire eating stubble, like a mighty people drawn up for battle.

⁶From before him peoples will tremble, all faces will gather heat.

⁷Like warriors they will run, like men of war they will go up a wall. And each one goes in his ways, and they do not change their paths.

⁸And one doesn't afflict his fellow, each will go on his highway. And they will fling themselves through the javelin and they will not cut it out.

⁹They will rush on the city, they will run on the wall, they will go up in the houses, they will come in the windows like a thief.

¹⁰Earth quakes before him, heavens shake, sun and moon grow dark and the stars take away their shining.

¹¹And the LORD gives his voice before his army, because his besiegers are very numerous because the one doing his word is mighty, because the day of the LORD is great and very fearful and who can endure it?

²⁰And I will remove the Northerner from upon you, and I will scatter him into a dry and deserted land; His front into the eastern sea and his rear guard into the western sea. And his stink will go up and his smell of putrefication will arise, because he did great things.²⁶

Notice that the locusts can cause darkness and obscure the sun as well as sirroco dust. Both also destroy vegetation.

In the other passages, human armies are compared to locusts. Here in Joel locusts are compared to armies. In Nahum 3:15, fire is compared to locusts; in Joel 2:5, locusts are compared to fire. This indicates that destroying armies and fire are like locusts more than metaphorically; the converse is also used. These ideas are associated in a deeper way than mere simile. Locusts are destroyers par excellence. The orderly advance of locusts on the move was proverbial. "The locusts have no king, yet all of them march in rank." Prov. 30:27.

New Testament Background

Scorpion-creatures are referred to only in one other place besides Revelation 9:1-11 in the Bible — in Luke 10:17-19.

The seventy returned with joy, saying, "Lord, even the demons are subject to us in your name!" And he said to them, "I saw Satan fall like lightning from heaven. Behold, I have given you authority to tread upon serpents and scorpions, and over all the power of the enemy; and nothing shall hurt you."

Notice that the backdrop to the mention of scorpions is the fall of Satan, just as in Rev. 9:1. The serpents and scorpions are the underlings of Satan as in Rev. 9:11. Compare this to the scorpion-men's role in Babylon as the agents of the evil Ti'amat. Luke equates scorpions with the power of the enemy, so does John, Rev. 9:3. There is one twist though. In Revelation the scorpions have authority over men without the seal of God, while Jesus gives the seventy authority over scorpions.

Fifth Trumpet

We have seen that locusts, scorpion-men and the sirroco were associated in the ancient world. We can now appreciate how John combines these terrors as a solemn warning of judgment.

The sun and the air are darkened (v. 2) from smoke, just as the sun is darkened from sirroco dust or a locust swarm. "Air" had a different meaning in the New Testament than it does today.

According to the ancient conception of the earth, the spheres of the air reach to the moon, where the ethereal region of the stars commences. The Greeks made a distinction between the impure element of air and the purer ether, thus finding in the former a place of abode for imperfect spirits.¹⁷

Ephesians 2:2 uses the word air as the realm of Satan's control. "Following the prince of the power of the air, the spirit that is now at work in the sons of disobedience."

The grass of the earth, the greenery, the trees are hurt by the locust-demons. To the ancients, greenery represented people, especially the righteous, who bear fruit. The wicked are a withered, dry tree fit only for fuel. This is the imagery behind Jesus' statement to the women as he carried the cross.

Daughters of Jerusalem, do not weep for me, but weep for yourselves and for your children. For if they do this when the wood is green, what will happen when it is dry? Luke 23:28, 31.

The torture of the scorpion-locusts lasts five months. Interestingly, the normal life-span of locusts is five months.

We have personified death in verse 6, as in the Ugaritic Myth of Ba'al and in Hosea 13:14.

Unlike natural locusts, these demonic locusts have a king over them (v. 11, cf. Prov. 30:27).

The name of this king of the abyss in Greek is Apollyon. Apollyon was the Greek god of plague and destruction. His symbol was the locust!¹⁸

Survival of the Locust Imagery among Folk Societies

It was not only the ancient Hebrews who compared the locust to a war-horse. Other peoples who lived close to the land noticed the similar appearance between the locust and horse. The Italian word for locust is "cavalletta," literally, little horse. The German peasants call locusts "heupferde," literally, hay-horses.¹⁹

An old Arab proverb is often quoted which says that the locust has a head like a horse, a breast like a lion, feet like a camel, a body like a serpent and antennae like the hair of a maiden.²⁰

Conclusion

The imagery of locusts, scorpion-men, and the sirroco as agents of evil from the unknown (the desert, the underworld) is so widespread in the ancient Near East that it is hardly possible that John was unaware of their associations. The type of background research which I have done for Revelation 9:1-11 is necessary before trying to interpret any passage of scripture. God employed imagery and language that could be understood by the ancients in conveying truth. We must reconstruct these idioms and thought-patterns to understand the Bible.

FOOTNOTES

¹ Samuel Noah Kramer, "Sumerian Similies: A Panoramic View of Some of Man's Oldest Literary Images," *Journal of the American Oriental Society*, 89:1-10, p. 8.

² James B. Pritchard, *The Ancient Near East in Pictures Relating to the Old Testament*, (New Jersey, 1954), p. 61 plate 192, and p. 271.

³ E. A. Speiser, "The Creation Epic," *Ancient Near Eastern Texts Relating to the Old Testament*, ed. James B. Pritchard, (New Jersey, 1969), p. 62.

⁴ E. A. Speiser, "The Epic of Gilgamesh," *Ancient Near Eastern Texts Relating to the Old Testament*, ed. James B. Pritchard, (New Jersey, 1969), p. 88.

⁵ Pritchard, *ANEP*, p. 176 plate 519, and p. 311.

⁶ H. L. Ginsberg, "The Legend of King Keret," *Ancient Near Eastern Texts Relating to the Old Testament*, ed. James B. Pritchard, (New Jersey, 1969), p. 144.

⁷ A. S. Kapelrud, "Ba'al and the Devourers," *Ugaritica VI*, ed. C. F. A. Schaeffer, (Paris, 1969), pp. 319-332.

⁸ J. C. de Moor, *The Seasonal Pattern in the Ugaritic Myth of Ba'lu According to the Version of Ilmilku*, *Alter Orient und Altes Testament*, (Neukirchen-Vlyn, 1971), p. 115, n. 4.

⁹ Gerald S. Hawkins, *Beyond Stonehenge*, (New York, 1973).

¹⁰ de Moor, p. 175.

¹¹ For a definition of mythopoeia see Theodor Herz Gaster, *Myth, Legend, and Custom in the Old Testament*, (New York, 1969), pp. xxxiii-xxxvii.

¹² CTA 4:VII. 32-60. trans. de Moor, p. 164.

¹³ CTA 4:VIII. 21-24. trans. de Moor, p. 177.

¹⁴ M. von Oppenheim, *Tel Halaf*, trans. G. Wheeler. (Glasgow, 1939), pp. 186-188, plates XLIa&b, XLIIa.

¹⁵ All Biblical citations are from the Revised Standard Version unless otherwise noted.

¹⁶ This is my own translation.

¹⁷ Georg Foerster, "AHP" *Theological Dictionary of the New Testament*, G. Kittel and G. Friedrich eds., trans. G. W. Bromiley, (Grand Rapids, 1964-), I, p. 166.

¹⁸ George Eldon Ladd, *A Commentary on the Revelation of John*, (Grand Rapids, 1972), p. 134.

¹⁹ Wilfrid J. Harrington, *Understanding the Apocalypse*, (Washington, 1969), p. 140.

²⁰ Ladd, p. 130.

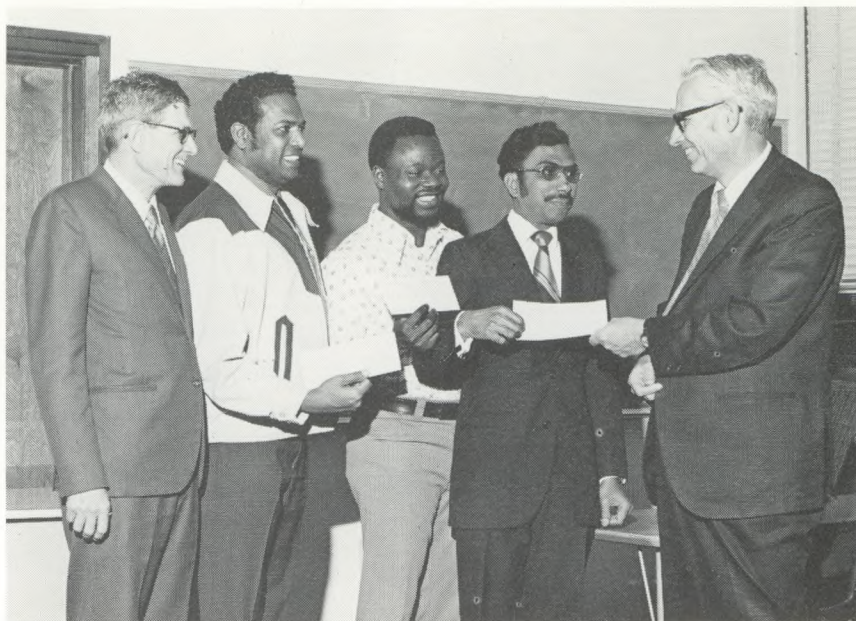
Ed.—Paul Lippi presented his research to a Sabbath School study class at the time the 5th Trumpet of Revelation 9 was included in the Lesson Quarterly. Since there have been numerous requests for copies, FOCUS is making it available to its readers.

International Students Write Three Best Papers In Insurance Class

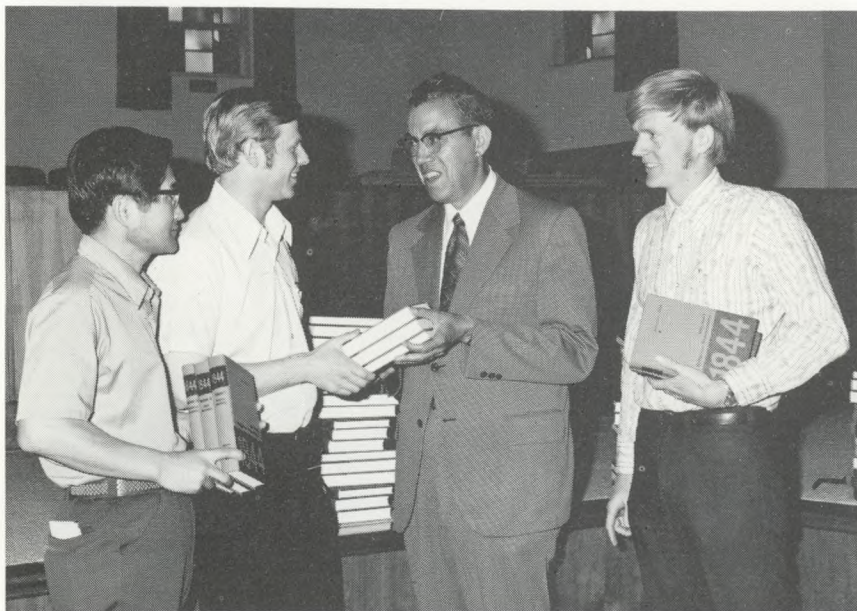
Two students from India and one from West Nigeria have received the three cash awards for the best papers written at Andrews University in a graduate business administration course, Management of Insurance.

The awards were given by the SDA General Conference Insurance and Risk Management Service, Washington, D.C. Fourteen term papers were submitted by students enrolled in the class taught by Dr. Wilson Trickett, professor of business administration.

First prize of \$125 went to C. V. Raghavendra Prasad of Mysore, India, for his paper entitled "An Inquiry into the Causes of Accidents in Andrews University Campus Industries for the Calendar Year 1972-73 and Specific Recommendations to Reduce or Avoid These Accidents."



Cash awards for the best papers written in a graduate business administration class in insurance are presented to three international students at Andrews by Dr. Robert Firth, chairman of the business administration department. From left are Dr. Wilson Trickett, professor of business administration and teacher for the course; Leonard Clemonds, Bangalore, India, third prize of \$50; Michael Omotunde Ogundairo, Ile-ife, Nigeria, second prize of \$75; C. V. Raghavendra Prasad, Mysore, India, first prize of \$125; and Dr. Firth. The awards were given by the SDA General Conference Insurance and Risk Management Service, Washington, D.C.



Dr. Jerome L. Clark (center), chairman of the history department at Southern Missionary College, recently presented sets of his three-volume series, 1844, to graduates of the SDA Theological Seminary and senior theology majors in the College of Arts and Sciences at AU. Among those receiving the books were, from left, Hyung Pak, Tim Rosenboom, and James Ellison. The books were inscribed, "Presented to you by the Physicians and Dentists Scholarship Fund in memory of Dr. Everett T. Watrous." The three volumes, Religious Movements, Social Movements, and Intellectual Movements, survey the significant highlights of the widespread reform movements prominent in 1844, a pivotal year in the two-decade period of the 1830's and 1840's, termed by historians the "Period of the Benevolent Empire." Dr. Clark designed his series "to give the reader a deeper insight into the atmosphere of reform which permeated the time in which arose the Millerite Movement, the seedbed of the Seventh-day Adventist Church."

The \$75 second prize was awarded Michael Omotunde Ogundairo of Ile-ife, West Nigeria. His paper dealt with "The Economic Impact of the No-Fault Insurance Law on the Andrews University Student Population."

Receiving the third prize of \$50 was Leonard Clemonds of Bangalore, India. His paper was entitled "Medical Malpractice Claims—A Study to Show the Need of a New Approach for Their Disposition."

\$300 Frosh Scholarships Given by Andrews

Thirty students from the Lake Union academies and high schools have received scholarships worth \$300 each from Andrews University for 1974-75. They are:

- Adelphian Academy—Jon Beard, Cheryl Ivey, Debra Petroit; Andrews University Academy—Darlene Boyer, Kelvin Kubo, Robert Lutz, Bonnie Mitchell, Keith Snyder;
- Battle Creek Academy—Karen Overfield;
- Broadview Academy—Sharon Clausen, Ingrid Schlinsog, Rita Waterman;
- Cedar Lake Academy—Penny Anderson, John

Right: Dr. Richard Hammill (left), president of AU, presents Dr. Edward C. Banks with a plaque from the university honoring him for his educational work in the area of evangelism. Banks started the first field school of evangelism in 1948 in order that ministerial students might gain some experience in public evangelism before beginning their own ministries. The 135 field schools Banks has conducted for the Seminary at AU, in which 1,250 students have participated, have resulted in the baptisms of 10,000 persons.



Clough, Judy Sheline, Judy Slikkers; Grand Ledge Academy—Terry Black, Wendy Mickelsen, Karin von Steigel; Indiana Academy—Gail Klooster, Katy Serikaku, Franke Zollman; Wisconsin Academy—Pam Anderson, Ron Jaecks, Becky Roth, Dan Thompson, Bill Valenti; Berrien Springs (Mich.) High School—Sharon Cox; Northside High School (Muncie, Ind.)—Janet Wake; Whitmore Lake (Mich.) High School—Laila Mashni. A \$750 scholarship was granted to Gary Piekarek from Adelphian Academy by the Alvin Bentley Foundation.

Elementary School Principal Researches Systematic Development of Instruction

Donald E. Van Duinen, principal of the Andrews University Elementary School, has been awarded a PhD degree in instructional development and technology at Michigan State University.

Besides his duties as principal, he has taught courses for the AU department of education since 1958 and holds the academic rank of assistant professor of education. His doctoral dissertation was based on a population study of the Andrews University faculty which sought to determine their expressed knowledge of, attitude toward, and experience with the systematic development of instruction.

"Pressures from the high cost of education in a parochial institution," said Van Duinen, "the desire to educate a greater percentage of Seventh-day Adventist youths, and some dissatisfaction with present practices demand that the processes of determining effective methods of instruction become more and more systematic."

He feels the most applicable impli-

cations from his research are that (1) instructional development workshops should be conducted for small groups of faculty members at one time, (2) faculty members should be grouped in seminars based on their interests and backgrounds, and (3) faculty members should be identified individually as to their interests and attitudes about instructional development.

Van Duinen has participated in evaluation of Adventist elementary schools in Michigan. He is a member of the Association for Education Communications and Technology and the National Association of Elementary School Principals.

AU Personnel Participate in Hawaiian Maranatha Project

A three-week trip to Hawaii, July 8-29, was a "working vacation" for a number of persons connected with AU.

Part of a 183-person team organized by Maranatha Flights International of Berrien Springs, they worked seven hours a day, five days a week, constructing a Seventh-day Adventist church in Honolulu. The remainder of their time, either all morning or all afternoon, plus every evening and the weekends, was free for the beaches, sightseeing, or other activities.

The Honolulu church is pastored by George Coffen, pastor of the

Berrien Springs Seventh-day Adventist Church from 1964 to 1969. The former church building there was sold when the congregation outgrew it, and a new site was obtained, but Pastor Coffen estimates it would take three years to build the new church to seat 1500 if only local help were used.

He requested construction help from MFI, which is directed by Berrien Springs photographer and printer John Freeman. The Adventist Hawaiian Mission provided room and board for the MFI team.

Recent MFI projects in which AU personnel participated included building a church last summer in Yellowknife, Northwest Territories, and constructing an industrial education building last October at the Indian mission school in Holbrook, Arizona.



A unique posture chair from the late 1800's, which was designed by Dr. John Harvey Kellogg to conform to the human anatomy, is presented to Donald Prior (left), vice-president for development and public relations at Andrews, by H. H. Hill, on behalf of the Battle Creek Sanitarium Hospital. The chair will be part of AU's Heritage Room collection of memorabilia pertaining to the development of the Seventh-day Adventist Church. Kellogg was associated with the Battle Creek Sanitarium from 1876 until his death in 1942. He developed the chair above as part of his posture program. It has been estimated that such chairs would cost \$150 each to manufacture today. Hill was until recently administrator of Battle Creek Sanitarium Hospital and now serves as a field secretary for the General Conference of SDA's.

SDA's Build System of Education From the Top Downward

By **E. K. Vandevere**, emeritus professor of history
and AU historian

After twenty years of hesitation and anxiety, Seventh-day Adventists in 1874 decided to establish a college—they would build a system of education from the top downward. They hoped this would not deny their strong advent hope nor dilute their piety.

These pioneers approached their tasks on three different levels: 1) on the level of educational ideology and practice as counseled by Ellen G. White (whom they regarded as the Lord's Messenger); 2) on the level of educational notions nourished by their other leaders, such as James White, George I. Butler, John N. Andrews, Uriah Smith; 3) on the level of actuality. As one might expect, performance often fell short of goals.

Setting Goals

What goals? The leaders intended to train young people, from 8 to 48, to labor in the "organized work" of the church, as ministers, missionaries, printers, businessmen, teachers. James White held that all should be taught "how to think." Messenger Ellen, though endorsing this, envisioned "Christian Education" as being so spiritual and practical, so engrossing that it would include the total man and the whole period of existence possible. In short, she equated education with salvation; she "planned" for a modern "school of the prophets"!

In the late summer of 1874 when these folks opened Battle Creek College (eventually Andrews University) in Michigan they fell far short of their aspirations.

How could Bible-based education be imparted when only one religion course was offered each winter quarter? In truth, religion was crowded almost to death by the five years of Greek and four of Latin and/or German or French demanded of degree candidates because the founders promised the State to operate a college offering curriculums like those generally found in other colleges. (Remember, Greek and Latin professors had sparked the Protestant Reformation; hence Classical education dominated in northern Europe and the United States).

How could practical, especially agricultural or manufacturing education, thrive on a seven-acre campus in suburbia? It did not. Much of the unused campus developed as playfield. Only a few score students found jobs at the Health Reform Institute across the street. Others labored at the Review and Herald press and bindery. During the years around 1880 a business department functioned creditably, only to fade in the closure of 1882.

Bell Uses Shock Treatment

Upon what then did the founders rely? Obviously on the environment, college, and community. In and around the big-little, red-brick schoolhouse on Washington street a Christian atmosphere was sought. Some chapel assemblies were used to promote Christian ethics and gentility. Few worked harder for decorum and solidity than Goodloe H. Bell, head of the English department. Bell liked to regiment and discipline, vigorously and caustically. According to his lights, Adventist youth came to the college as clodhoppers who needed a lot of making over. He hoped "shock treatments" might jar stubborn feet out of ruts. And since he taught ably and beautifully, he got by with his forthright methods—and in later years was praised for his molding influence and rugged uprightness.

Dormitories Unwanted

In the Adventist dominated West End community of Battle Creek, the fashioners of the college hoped to find just what the students needed—homes while away from home, social culture, religious inspiration. Hence dormitories were unwanted as being poor substitutes for private dwellings. By and large, the homes at Battle Creek were above the ordinary, composed as they were of first generation converts and families transplanted into the suburb as the best families ("congressmen," so-called) discoverable anywhere.

The student locating committee carefully supervised the placement of students in these homes. They might board and warm themselves, bachelorlike, but eventually "eating clubs" formed to improve cooking and socializing. Otherwise, courting was forbidden, though young men slyly visited with lady friends while sawing at their woodpiles. Family-like Bible study and prayer groups met weekly, student George R. Avery describing one such meeting as "the best ever."

Formal worship services found students in the Tabernacle for Sabbath School, with recitation and discussion classes of eight or ten members, and for Divine service. Diarists usually jotted the minister's name and sermon text. A Sabbath afternoon Social (testimony) meeting attracted, as also did the quarterly communion service ending at sundown.

Late autumn campmeetings at Battle Creek or Lansing attracted many of the students as the college recessed

for a long weekend. In the college chapel, when possible, the Whites, James (until 1881) and Ellen, ministered the Gospel to the students with effectiveness, and scores were baptized.

There was much to please in this Brownsberger period, and his "sons" remained loyal to the Battle Creek friends and the acculturation there achieved.

All might have gone on well for these earlier collegiates if only the school had been located in the countryside at Gogua Lake as the Whites had desired rather than in the town which now sucked too many of the young men into downtown "amusements." Sick at heart because of this, Brownsberger resigned (1881) in favor of Alexander McLearn, a Baptist minister recently converted to observing the seventh-day Sabbath.

Martinetts Clash — Division Follows

Within a few months, however, two martinetts, McLearn and Bell, collided. The faculty divided. So did the students, the families with whom they lived, and finally the church. (Were not the Whites right when they counseled against a community college?) As a result the college failed to operate for a year (1882-3), and when it took up again it was headed by Pastor Littlejohn, a blind man!

Concomitant with this reopening, the Board voted that dormitories and manual labor industries must be established. Feeble beginnings with such seemed likely to grow robust upon the arrival of dynamic President William W. Prescott. Plant expansion drives (to produce men's South Hall and women's West Hall, and South and North Additions to the college) seemed at first to augur well for practical education, as press, tent manufacturing, wood working, and domestic sciences were attempted. But money, trained instructors, and morale were in short supply. Parents, students, and liberal arts teachers proved "a little inimical" to these "reforms," supposing one studied in college so he would not have to work, at least, not with his hands. Accordingly in 1889 the soft-handed trustee members voted to drop the entire effort.

Years later Joseph H. Haughey, student and teacher with the college, believed the Prescott program (1885-94) to be the best he knew.

Why? Because Prescott "sold" his own stirring qualities to the students. And he offered an understandable syndrome: marital order, discipline, strenuousness, Classicism, physical education, music, religiosity, togetherness.

School Family Inaugurated

With Prescott things must succeed, and they did, too, until over 500 students enrolled. One of his most successful concepts was that of the "school family" and "school home" and "domestic time." Students and faculty composed a school family headed by the Prescotts. The place lived in became a home, not merely a dormitory. The place eaten in became a refinery. College buildings shone as students contributed two hours daily of domestic labor because they were members of the family. Daily chapel sessions inculcated all manly

qualities. So successful was Prescott with this morale-building togetherness that the School Family ideal lived in SDA schools for many years.

With manual arts discarded, a rage for games developed. A makeshift "gymnasium" and required physical education courses did little to curb the craze for Rugby, tennis, and other match contests. Eventually, however, Prescott sighted in numerous and large musical performances esthetic rivals to sports. In staff member, Edwin E. Barnes, one of the better-known musicians in Michigan, Prescott had an instructor and director to lead in music affairs. Over one hundred students led by Barnes teamed together in 1894 (Prescott's last commencement) to stage a festival of music.

Nonetheless this president was unable (while in office) to banish the Classical courses emphasizing pagan authors. Not even after the Harbor Spring Convention (1891), where Ellen White pled mightily for educational reform, were any significant changes effected, though more Bible subjects and history courses with a secular-sacred mix appeared.

The Caviness administration (1894-7) was in essence an extension of "Prescottism." Apparently the college had fallen victim to inertia. Prescott had craved faculty excellence and permanence and had succeeded too well, for by now his mentors were teaching Greek and Latin, English, mathematics, and sciences **rather than students**. In fact, the instructors came to care not what the school's constituents desired—they better understood what their charges should learn! Such stubbornness placed the college at dead center, and there it teetered between Classicism and denominationalism. Who had weight enough to upset the status quo?

Status Quo Upset

It actually required the weight of four—Ellen White (in Australia), Dr. John Harvey Kellogg, Alonzo T. Jones, and Prescott (back in America from a tour of overseas missions). In 1897 the men engineered an upheaval that placed reformers at the helm of the schools: Edward A. Sutherland, Percy T. Magan, M. Bessie De Graw, Chris M. Christiansen, and others. Suddenly all things at the institution except its physical features were changed or discarded.

Classical education was pitched out. Revivalism was accorded top priority. Witnessing and city mission activity occurred. Mountains of difficulty flattened before the drive to establish "industries." SDA-prepared textbooks appeared. Quick preparation for denominational work was attempted. And, behold, a system of elementary schools and academies spun off from the college with most of the teachers trained at Battle Creek. Now as a denominational "training school," the college emerged with streamlined practical-minded academic "departments." In four years' time 585 students went into the service of the church or into further training.

But the college was woefully in debt, and West End Battle Creek had "gone to seed" as a denominational base. Why not move the school out to "Gogua Lake" (four miles south of town)? Would the reformers dare? They did!

However "Goguac Lake" turned out to be the west bank of the St. Joseph River about two miles north of Berrien Springs, Michigan.

Soul and Soil Cultivated

After 100 students spent a year in that village, the institution as Emmanuel Missionary College set up on the "college estate" of 272 acres. Here the school pulled itself into shape by its own bootstraps—and a great deal of begging for funds and selling of **Christ's Object Lessons**.

The initial seven years at Berrien under the guidance of Sutherland and Kauble bound off this period of reformism. The Sutherland group was absolutely enthralled with the opportunity to cultivate both soul and soil, the principal distraction being the exorbitant amount of manual labor necessary to construct a school plant. Hence they lauded the days for labor, the evenings for classes. This procedure facilitated the adoption of a "one-study plan." The merits and demerits of the plan were warmly debated by the Lake Union Conference folks who now sponsored the school. Moreover, graduations with degrees were abolished as being papal, and careful records were spurned as idolatry. Simple departments functioned: ministerial, missionary teachers, pre-medical, Christian business, music, and manual training.

Attendance never exceeded 100 pioneering youth. And as one of them later remembered: We got an "awful lot of fire in our boilers but not much steam." A strong proprietary attitude developed as each one came to feel himself a member of a cooperative school family and of a growing denomination. Self reliance and confidence in Providence thrived. So did area missionary visitation.

And that was not all. Every SDA young person ought to be educated by the church and harnessed for the denomination. Accordingly the Sutherland coterie endeavored to convince that EMC-trained teachers should evangelize far and wide. Hopefully, variously trained people knit into self-supporting "units" of proselyters were to be spawned from EMC. Payment of a second tithe by church members would trigger this vast spreading outreach.

But Sutherland so far out-dreamt his fellow church folks that he "lost" them, and they came to fear his extremism. Consequently, in 1904 he and his key supporters resigned from the school and left Michigan to pioneer an industrial institute in the South. At EMC a much altered, but still a very down-to-earth program ran on until 1908.

How should one view this era? Some praised; others condemned. Some of Ellen White's comments are of record. In 1907 she encouraged the reformers, affirming: "The members of this faculty have been getting hold of right methods, and . . . [are] making an object lesson of this school, according to the pattern God has given. . . . The Lord is pleased with the effort that is being made to carry forward our school on right lines." And she comforted them in 1904, maintaining: "Brother Sutherland and Brother Magan do not go from this place as men who have made a failure, but as men who have made a success. . . . The students that have been with

them need not be ashamed of the education they have received."

Toward Prestige and Status

In the fifty ensuing years the college (under seven presidents) plodded on toward prestige and status, with startling reforms shunned. Yet withal this span saw some remarkably able administrations, two world wars, and a savage depression.

The Graf administration (1908-17) proved foundational offering a careful, God-fearing educational environment, and the students and parents liked it. Graf courted their cooperation and reaped handsomely: a successful, thrilling, debt-lifting campaign; a school paper launched, rightly styled **The Student Movement**; a school annual inaugurated aptly named the **Cardinal**; an institution filled with students. In sum, the Graf group offered their young people solid, if not brain-tingling, learning, and they in turn put their shoulders to the educational cart believing a student movement could push EMC to the top.

Forward thrusting students found a second leader (1918-25) in Frederick Griggs, one of the most kinetic leaders to emerge from Old Battle Creek College.

Magic of Griggs

Like fire in dry pines youthful fervor continued to flame. Satisfied students satisfied others, and enrollments shot to 300, and 400, and 500! More buildings arose. Griggs blessed an emergent Associated Student Body and an Alumni Association. He promoted the attempt to pioneer college broadcasting with a "Radio Lighthouse." He helped strengthen or create genuinely paying industries: Wood Products, press, and farm.

Wisely, staff members with overseas mission experience helped this president doubly underline the "Missionary" portion of the school's title and to list the 130 missionaries produced. As an unequaled "chapel artist" he sang and spoke into fancy a bright tapestry of goodwill. The Golden Anniversary celebration for the institution in 1924 brought the opportunity to equate the denomination's oldest college with Christian education.

Backbones of EMC

And the influence of ex-missionary and religion teacher W. H. Wakeham should be mentioned. So successfully did he present his wares that even the students who played games admonished each other to self control, fair play, and unpolluted speech.

Another stout element in the institution's backbone was those men and women who earned their way by col-porteuring with gospel books. Many of these felt called to become ministers; and called also to keep EMC strong and pure. Like sensitive nerves, they might spasm if pinched by any shortcoming on the part of "their college."

Most of the students accepted Wolfkill's governance (1925-30). They knew what he wanted—intelligent, snappy performance. And they admired him because he seemed a Nehemiah, Oliver Cromwell, and Roger Williams combined. The trustees esteemed his budget-balancing ability.

Hard battles for the college came on apace after 1930: the struggle to gain and regain accreditation with the North Central Accrediting Association (gotten in 1939); the grapple with the Great Depression (solved by working the industries for all they were worth); decimation threatened by World War II (obviated by convincing many women that right then they needed all the education they could get); the inundation by veterans and "regular" students following the War (a flood swallowed up by the construction of an entirely new school plant expressed in the vernacular of steel, cement, and brick).

"Shaking Upward" Process

By 1950 enrollments soared above the 1000 figure. Why? Because a post-war educational tide moved in the denomination, in the United States, and in the World. And because of EMC's reputation for ruralism, frugality, substantiality, and, above all, spirituality.

Take a case in point. A recently baptized Adventist in Minnesota, Lewis N. Holm, read Ellen White's **Christian Education**, absorbed its principles, asked at camp meeting if any school existed that adhered to them, and had EMC recommended. He went. He learned. And after a while he was placed as chairman of the school's agriculture department, and then as business manager of the institution. Students and staff members such as he were feverish for EMC, and others caught the contagion.

To satisfy so many students, Presidents Christian and Rittenhouse between 1950 and 1958 added scholastic departments and increased staffs. They invited the best-qualified instructors available, usually seasoned ones who possessed master of arts or doctor of philosophy degrees. That such persons existed reflected pressures applied by the NCA. In fine, SDA teachers of the forties and fifties not only had to be **more**, they also had to **know more**. Fortunately the students generally maintained a fine equilibrium through this shaking upward process. Thus

the college matured.

(Admittedly, accreditation, degrees, and "foreign" studies, lately so prominent, have affected SDA schools. Dangerously? Perhaps. But if all developments had been shunned because of possible hazards, Battle Creek College would never have been founded; in fact, denominational life would have atrophied.)

Present-day Pioneers

Then from the Autumn Council of the General Conference, convened at Washington, D.C., in 1958, issued the edict (in response to invitation): the adolescent Potomac University (seminary and graduate school) is to locate at Berrien Springs and combine with Emmanuel Missionary College.

The action shocked nearly everyone, except the students on the Michigan campus, who wildly applauded the announcement. This new creation fittingly received the name "**Andrews University.**" For Seventh-day Adventists this huge step forward called for vaster visions, deeper dedications, multi-maturations, and nice tolerances. A Christian university obviously cannot be achieved by merely wishing for one.*

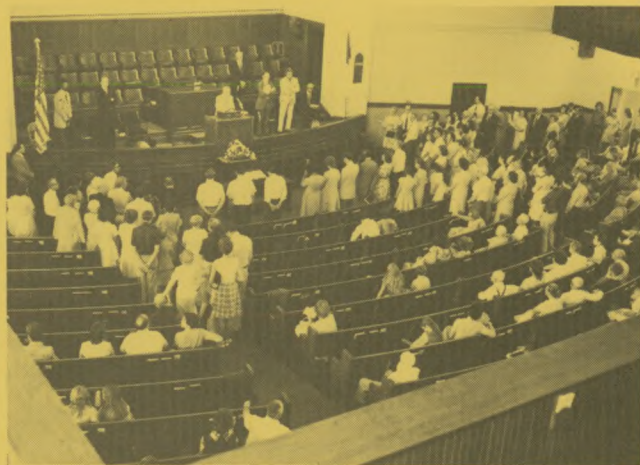
Fortunately, after 1963, Richard Hammill was assigned the massive task of blazing paths so new in denominational experience that it almost overwhelms. However, President Hammill, an educational statesman, with clearer vision than most, leads a body of students and staff who are present-day pioneers, and the way grows even brighter.

All rejoice, therefore, in the summons to excellence as Andrews, throughout 1974, celebrates, under God, its one-hundredth birthday!

For a more comprehensive history of Andrews University, consult its authorized history, *The Wisdom Seekers*, by Dr. Vande Vere.



Dedicated EMC teachers and staff of the past whose stalwart influence gave direction to the growth of a college into a university. They laid strong foundations, probably better than they knew.

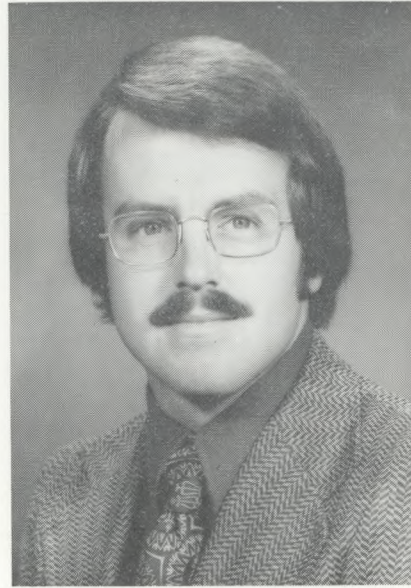


AU faculty and staff members rededicate themselves to the cause of Christian education at a Centennial function held this summer at Battle Creek where it all began in 1874.

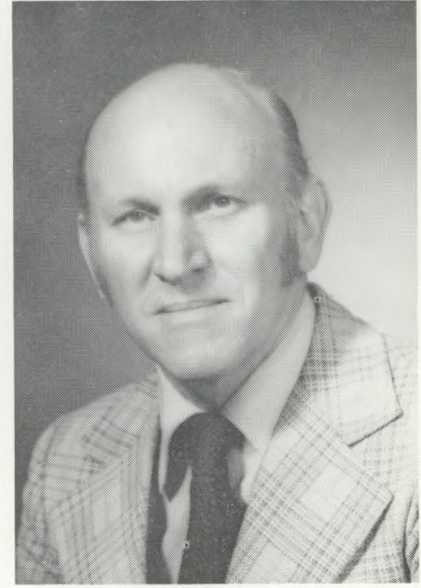
WAUS Appoints Manager, Development Director

A new station manager and development director have been appointed at WAUS, the fine arts stereo FM radio station on the campus of Andrews University. Station manager Wayne Woodhams is a 1972 graduate of Pacific Union College, Angwin, California, where he majored in broadcasting and minored in music. For two years, he served as student manager/program director of the college FM station, KANG.

Development director Max Church is an Andrews alumnus and has lived in Berrien Springs since returning to the U.S. in 1972 following 20 years of mission service in Africa for the Seventh-day Adventist Church.



Wayne Woodhams



Max Church

Source Credibility Researched By AU Student

An average person making unsubstantiated assertions is more believable to most people than is a person in a position of authority who makes identical assertions, according to a study on source credibility done by Everett F. Hutchinson, senior communication student at Andrews University.

Results of the study also indicate that the average person attains nearly as high a degree of public believability when he makes unsubstantiated assertions as when he presents well-substantiated statements.

A paper describing the study, "Source Credibility and the Effects of a Relevant Message on Semantic Evaluation," was discussed at the 22nd annual meeting of the International Communication Association, held in New Orleans. Hutchinson said the study used a questionnaire to propose a controversial idea, first in the name of a college administrator, then in the name of a student. "When both presentations consisted of unsubstantiated assertions, the college student was believed far more readily by those filling out the questionnaires," he said.

He found that the most credible source is the person in a position of authority who backs up all his ideas with well-reasoned arguments, while the same person becomes the least credible if he does not adequately back up his ideas. Hutchinson is currently seeking a research grant for further study, specifically to find out what elements of modern education condition people to react in this manner, and to examine the implications of this reaction for such persuasion-oriented endeavors as religious evangelism.

Business Teacher Receives CMA Rating

Dr. C. Torben Thomsen, assistant professor of business administration at Andrews University, has received the Certificate in Management Accounting based on an examination developed by the National Association of Accountants and given by the Institute of Management Accounting.

The CMA is similar to the CPA, or Certified Public Accountant, rating, except that the 17½-hour examination covers the five areas of economics and finance; organization, behavior, and ethics; public

reporting, auditing, and taxes; periodic reporting for internal and external purposes; and decision analysis, modeling, and information systems.

Thomsen also received a Certificate of Distinguished Performance, awarded to persons receiving high scores on the test and presented at the annual meeting of the National Association of Accountants which met in Detroit the last week of June.

A 1965 alumnus of Andrews University, Thomsen earned his master of business administration degree and a PhD in accounting at Michigan State University. He has been on the AU faculty since 1969.

Spring Honor Grad To Study in Germany

Elaine Irene Baum, who graduated with honors in the spring with a bachelor of arts degree in German, mathematics, and music, has been awarded a scholarship of between \$500 and \$600 by Middlebury (Vermont) College. She is taking courses on the Vermont campus this summer, and in the fall will enroll at the University of

Mainz, Germany, where her entire classwork for the master's degree will be in German. When she finishes her work in Germany in about a year, her degree will be awarded by Middlebury College.

Andrews Graduate Awarded Assistantship At Ohio State University

A June graduate of Andrews University has been awarded a \$9,000 teaching assistantship for the coming year at Ohio State University, Columbus.

Mike Crosby, of Windsor, Ontario, completed his master of business administration degree at AU in June with a perfect 4.0 grade point average, the first student ever to attain this level of achievement in the MBA program at Andrews. He will pursue a PhD in accounting at Ohio State.

Crosby received his bachelor of arts degree in business administration and mathematics at AU in 1972.

For his graduate studies at AU, he was named a Weniger Fellow, an honor that carries with it a \$2,000 fellowship.

He is a member of Pi Mu Epsilon and Delta Mu Delta, the national honor societies in mathematics and business administration, respectively.

Associate Pastor Takes New Post

Pastor John Swanson, associate pastor for laboratory school youth at Andrews University's Pioneer Memorial Church for the past year and a half, has been named pastor of the Traverse City Seventh-day Adventist Church. During his service at the Pioneer Church, Swanson directed the religious activities of the approximately 450 students enrolled from the kindergarten through AU laboratory school.

Vitrano Conducts Meetings At Battle Creek

Dr. Steven Vitrano, professor of preaching at the Theological

Seminary, conducted meetings in Life and Health Ministries at Battle Creek, May 27 to July 13. The programs, held at the W. K. Kellogg Auditorium and the Battle Creek Tabernacle, covered, in the health area, dietary control of cholesterol and saturated fats, physical fitness and weight control, and stress control.

Religious programs included three-hour seminars on prophecy and talks on other points of SDA doctrines and beliefs. At the end of the series, Elder Vitrano baptized 30 individuals.

Working with Dr. Vitrano in the program were Alice Smith, RN, MPH, director of AU nursing programs; Charlotte Hamlin, RN, MPH, director of public health education; and Herald Habenicht, MD, medical supervisor consultant. Minister of music was Ernest Steiner.

AU Centennial Recognized At Michigan Camp Meeting

Dressed in turn-of-the-century costumes and representing Adventist education pioneers, a number of AU faculty and staff conducted the Michigan camp meeting Sabbath School, July 20. Participating persons used documented speeches and comments of the pioneers.

On Sabbath afternoon, the university featured AU Alumna of the Year Josephine Cunnington Edwards who told of her and her husband Lowell's experiences in working their way through EMC (now AU).

"The hardest and the happiest years of my life," she termed them.

Dorcas Society Shares AU's Centennial Year

1974 marks the centennial of the SDA Dorcas Society, according to Battle Creek AU alumnus Mark Bovee.

Bovee notes that the original Dorcas society was organized in Battle Creek in October of 1874, the same year AU was founded as Battle Creek College. Meeting in the home of Mrs. Henry (Diantha) Gardner, says Bovee, eight women who were there attending prayer meeting

became charter members of the SDA Dorcas Society.

Today, Bovee points out, there are 10,794 such societies in 193 countries of the world. There are also 1,373 Adventist men's organizations involved in community service programs.

Activities of the original society included making garments and quilts for needy families and supplying them with food, caring for the fatherless and widows, and visiting the sick.

\$8,000 Grant from Merck Co. Will Aid Parasitology Research

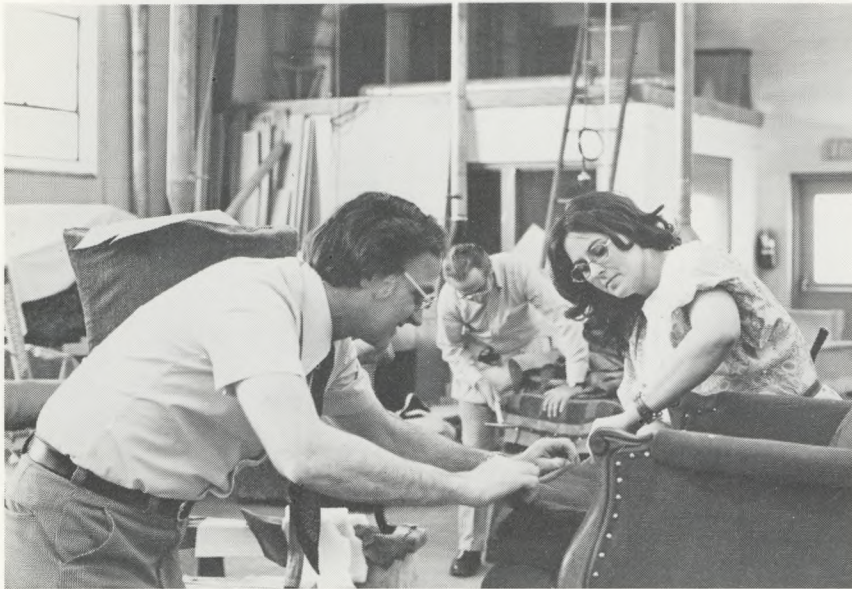
An \$8,000 grant from the Merck Company Foundation will aid in Andrews University's parasitology research at the electron microscope level.

The studies of coccidian parasites are being conducted by Dr. Bill Chobotar, associate professor of biology. Tissue samples will be prepared at AU and then taken to Argonne National Laboratory west of Chicago where Dr. Chobotar has been granted use of an electron microscope.

The \$8,000 Merck Grant for Faculty Development will help set up a laboratory at AU for preparing samples. New equipment being purchased includes an ultramicrotome for preparing very thin samples and vacuum chambers for coating and shadowing specimens. Dr. Chobotar's research seeks the reason why some animal parasites mature and become active in a host more quickly than do others.

Although the parasites being studied are from kangaroo rats and mice, they are the same type found in many domestic animals and are related to ones found in man. Research results may aid in treatment of parasite problems.

During the summer, Dr. Chobotar worked in Bonn, West Germany, under one of the world's experts in techniques at the electron level. He began his study of electron microscope techniques at Utah State University, where he earlier received his PhD degree in zoology.



Melvin Andersen, director of occupational education, helps a student upholster her chair. Students who complete the classes in upholstery will be qualified to do re-cover work in their own shop, or to work for an upholsterer or at a plant.

Unique Preaching Ministry Described in New Book

A unique preaching ministry begun more than 65 years ago by prominent Chicago businessmen—after church leaders decided religious work was too difficult in the heart of Chicago—is the subject of a new book by Steven P. Vitrano, professor of preaching and director of field education at the Seventh-day Adventist Theological Seminary, Andrews University.

“An Hour of Good News: The Chicago Sunday Evening Club” describes the nonsectarian “club” founded in 1907 to bring to Chicago’s Orchestra Hall the most prominent preachers in the English-speaking world every Sunday evening from October to May.

Since 1922 most of the meetings have been broadcast by one or another of Chicago’s radio stations, and the programs have been telecast since 1956 by WTTW, Channel 11. Currently, the programs may be heard year-round on Sundays at 5 p.m. on Channel 11 and at 10 a.m. on radio station WCFL (Chicago times).

Dr. Vitrano’s extensive research into the history and preaching of the Club was originally undertaken for his doctoral dissertation. His new book is a continuation and updating

of that research and a presentation of it in a popular style.

Although a socially concerned clergyman, Clifford W. Barnes, sparked the idea of the Sunday Evening Club, none of the other 28 men who helped found the organization were professional church leaders.

Among the trustees today are the senior executives from some 20 of the city’s leading industrial, banking, merchandising, and professional concerns.

According to Vitrano, effectiveness of the programs is to be seen in the fact that requests for sermons, and mail in general, have increased dramatically from year to year.

Harris Appointed Youth Pastor At Pioneer Memorial Church

John Harris, a graduate student in religious education at Andrews University, has been named the new associate pastor at Pioneer Memorial Church for AU’s laboratory school youth, according to John Kroncke, senior pastor.

Harris will be the chaplain and will sponsor religious activities for grades K-12. He will conduct baptismal classes in the elementary school and

Christian witness classes and other activities for the junior high and high school levels.

He has been studying at the university for the past year and during that time has worked with “The Connection,” a singing and witnessing group made up of students from the lab school and the college.

Before coming to Berrien Springs, Harris spent four years as a Bible teacher at Far Eastern Adventist Academy in Singapore, and there he also organized a Christian witness team. Prior to that, he was a teacher, pastor, and evangelist in Thailand for nine years and a pastor and evangelist in Georgia and Tennessee for five years.

Christensens Visit For Centennial Campaign

from page 10

Dr. and Mrs. Otto Christensen are calling on alumni in Tennessee and Florida in the interest of the Alumni Centennial campaign. Following is a letter Dr. Christensen has written for *Focus* concerning his visits:

Your Mother and You

If your mother were in need, what would you do? Of course, you would all go to her help and give her support to fulfill her need. In my visits with our alumni of Andrews University, I often find them obligated to various local projects: churches, elementary schools, youth projects, etc. I marvel at what they are doing for the cause of God and at their many sacrifices. This is to be commended. Many are teaching in, and supporting, institutions where they are employed and thus feel a sense of fresh loyalty to these institutions. This, too, is commendable, and may God bless all of you in thus helping your step-mother. But what about your mother? Your Alma Mater? She has grown older and bigger and has outgrown her clothes and shelter for many adopted children. Now she is appealing to all her children for assistance.

How happy she feels over the kind words spoken by her sons and daughters.

More, page 33



Above: Miss Hazel Schmidt, secretary and assignment clerk for Circuit Court Judge William S. White, is given a blood test by Mrs. Beverly Denton of Berrien Springs during Andrews University's 3C's testing program held August 4 at Memorial Hospital in St. Joseph, Michigan. Results of the blood tests and other tests conducted during the evaluation give indications of cancer, coronary, and stroke risks.



Top right: Mrs. Charlotte Hamlin, instructor in nursing at Andrews and developer of the 3C's risk evaluation program, discusses the testing with Dr. Robert R. Small, an emergency-room physician at Memorial Hospital in St. Joseph. Other persons in the background fill in forms necessary for the correct results on their tests.

Touring Japanese Group Spend Two Weeks at Andrews

Some two dozen young Japanese spent July 24 to August 4 in southwestern Michigan to gain practice in conversational English before touring the western U.S. They attended three hours of classes at Andrews University each day and spent the rest of their time getting acquainted with various aspects of American life. Classes and other activities focused on using English in the kind of situations they would encounter on the rest of their tour.

The classes were conducted by Dr. Elaine Giddings, professor of communication; Miss Luanne Bauer, assistant professor of communication; and Mr. and Mrs. Bruce Bauer, on furlough from missionary duties in Japan. Bauer is in charge of five English language schools operated in Japan by the Seventh-day Adventist Church. The month-long tour by the



Japanese students was sponsored by the English Language Center at Osaka, Japan, where most of them are enrolled. A similar touring group last year also spent two weeks at AU.

A large mural is featured in the fellowship room of the new Spiritual Life Center at Andrews. From left, above, are Ron Lane, freshman music major, and Pastor Gordon Paxton of AU's Campus Ministry. The mural was designed and painted by students in the sign-painting program in the Center for Occupational Education at Andrews.

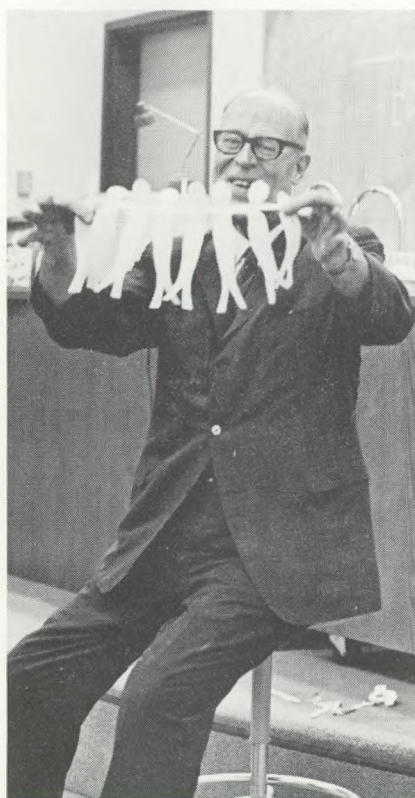
NOTICE TO READERS

Some of AU's news releases are picked up by news syndicates and appear in newspapers across the U.S., and sometimes in other countries. AU is interested in its news coverage and, since it has no clipping service, would be glad to receive newspaper clippings from media outside its local area.

Princeton Chemist Lectures

"Lucky Accidents, Great Discoveries, and the Prepared Mind" was discussed by Dr. Hubert N. Alyea, professor of chemistry at Princeton University, in a lecture at Andrews University on June 24.

The lecture was illustrated with many experiments and was designed for both scientists and laymen, including junior and senior high school students.



Dr. Hubert N. Alyea, professor of chemistry at Princeton University, finds use for paper dolls.

Dr. Alyea related a number of accidental discoveries which led to startling progress in the fields of plastics, antibiotics, and nuclear energy. He outlined how the discoverer in each case was quick to seize upon the lucky accident and to realize from it some new discovery, and examined ways to prepare the mind for making such discoveries.

A visiting lecturer in over 70 foreign countries, Dr. Alyea's own field of research is chain reactions and inhibition.



A rooftop greenhouse and solarium have been developed at the Andrews University science complex to aid students in classroom studies and research projects.

The solarium, a 25-by-40-foot structure on the north side of the biology building roof, includes a variety of subtropical plants, finches, ringneck doves, bobwhite and mountain quail, Australian budgerigars (known as parakeets in the U.S.), turtles, and fish. A 6-foot boa constrictor is on loan to the room from Wayne Carlson, an AU student.

The solarium features a biological control system with a simulated natural environment. This ecosystem in miniature will afford opportunities for continuous, year-round study of plants and animals, unaffected by extremes of temperatures and the normal biological quiescence of winter.

The greenhouse, on the south side of the roof, is 25 feet by 60 feet. Both it and the solarium are 14 feet high at the apex.

Separate areas in the greenhouse feature plants native to a dry climate, the temperate zone, and the tropics.

A wide variety of cactus is being grown in the dry climate area. An unusual one is a climbing species that blooms several times a year, but whose fragrant blossoms open only

A variety of flora and fauna are featured in the rooftop solarium at the Andrews University science complex, inspected above by graduate biology student Ken Seleske (left) and Dr. Asa Thoresen, chairman of the AU biology department. Seleske is holding a ringneck dove; a tame bobwhite quail nips at Thoresen's fingers. The solarium also includes turtles, fish, and a 6-foot boa constrictor. At the opposite side of the biology building roof is a greenhouse with three separate areas for plants native to a dry climate, the temperate zone, and the tropics.

between 9 p.m. and midnight, and then shrivel and die the next morning.

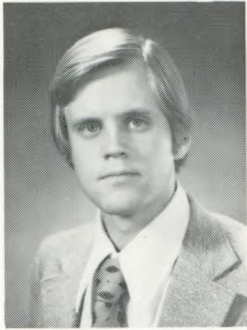
The temperate zone area includes bougainvillea, petunias, and African violets.

A waterfall is featured in the tropical section, where trees include papaya, fig, banana, monstera, castered apple, and coconut. Orchids and ferns will also be grown in this area.

Hanging baskets of plants are included in all three areas of the greenhouse.

The greenhouse and solarium may be visited Monday through Friday after checking in at the biology department office. The rooms are under the direction of Dr. Leonard Hare, professor of biology at AU.

Dr. Hare is also in charge of three environmental, or growth, chambers which are being used for experiments studying the optimum conditions for growing various plants such as violets.



Randolph Neall

Public Information Officer Appointed

Newly appointed public information officer at Andrews is Randolph Neall. He replaces Eldyn Karr, who has been named associate director of public relations for the Voice of Prophecy radio broadcast, Glendale, California.

Neall served the past year as public relations staff writer at the La Sierra campus of Loma Linda University in Riverside. He also completed one year of graduate school and held a teaching assistantship while there.

Karr has served AU as public information officer since 1969. Previously a teacher at Benton Harbor High School, he earned a BA degree in biology from AU in '67 and an MA with a concentration in religious journalism in '74. In his new post he will be managing editor of the *Voice of Prophecy News*.

50 Attend Annual Missions Institute



Over 50 persons attended this summer's annual Institute of World Mission held at Andrews University, June 17 to July 24. The group consisted of missionaries under appointment, those on furlough, and students interested in future mission work. They represented all but one of the world divisions of the Seventh-day Adventist Church.

The institute was directed by Dr. Gottfried Oosterwal, chairman of the department of world mission at the Theological Seminary at AU.

During the institute, students took academic courses for credit in world religions, which dealt with communicating the Gospel to a world that is 80% non-Christian; science and principles of world service, which explored the essence of Seventh-day Adventist mission today; missionary anthropology, which was concerned with the cultures and thought patterns of other people; and health and hygiene in the tropics, which acquainted the missionaries with various health hazards in tropical areas.



Dr. Winton Beaven (left) keynote speaker for AU Seminar for the Prevention of Alcoholism and Drug Dependency expresses himself! In photo at right John L. Smith (left), executive director of the American Council on Alcohol Problems, Washington, D.C., is being interviewed by Gil Brooks, news director at WHFB (Benton Harbor, Michigan).

Youngberg Presents New Approach To Family-Life Education

A unique approach to family-life education is the result of research done for a doctoral dissertation by John B. Youngberg, assistant professor of education at Andrews University. He received his EdD degree summa cum laude this spring from Western Michigan University.

His program differs from typical family-group therapy procedures designed for families who need counseling for specific problems. "Instead, it is intended to be preventive education, with the aim that each family member discover his own leadership gifts which can be used to accomplish the shared goals of the family," said Youngberg.

The program is also unique because it deals with the entire family unit, including all school-age children.

"Most family-life education is 'parent education,' which generally becomes 'mother education,'" he explained.

Youngberg noted that family life education should encourage a feeling of "familyness" and leadership within each nuclear family group.

His dissertation was based on results obtained when he tested his family life education curriculum on a random sampling of Seventh-day

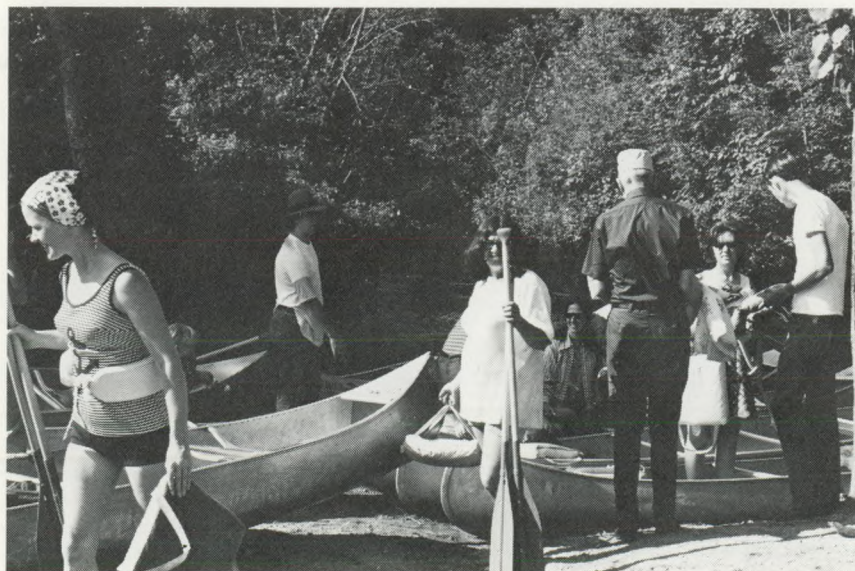


Above: Interesting reactions resulted as Richard Powell (center), librarian at Andrews University's Teaching Materials Center, talked with elementary school-age children about their roles in family leadership. Their discussion was part of the family life education seminars conducted by Dr. John Youngberg.

Adventist families who belong to Pioneer Memorial Church on the Andrews campus.

Youngberg's future plans for the program include teaching pastors and teachers to conduct family-life education training courses for families in local parishes and communities.

Below: A five-hour canoe trip on a recent family life education weekend campout provided insights for seminar group members on how their families work together. The canoe trip was highlighted along the way by lunch and swimming.



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Members of the family life education study group begin Sabbath morning of a campout with worship. The service preceded a day of discussions on Christian family leadership.

BRIEFS ON SUMMER WORKSHOPS

Home Nutrition Instructors

Thirty-eight certificates were awarded participants in the summer's Home Nutrition Instructor's Workshop, according to Dr. Alice Garrett Marsh, chairman of the home economics department and director of the program. Participants came from as far as Oklahoma, Canada, and Texas and included ministers and other professionals who serve on health teams, their wives, church and community leaders.

Assisting Dr. Marsh were Patricia Mutch, PhD, assistant professor of home economics; and Rose Stoia, RD, community education instructor, Kettering (Ohio) Medical Center.

Topics included at the workshop were: a pattern for food selection in any culture; community nutrition, sources and function of nutritional elements, controlling calories, nutrition gobledygook, sanitation and safety in food handling. Also considered was cooperation with community centers and medical personnel, the need for cooking schools in the churches and methods of demonstration.

Food Service Supervisors

The Food Service Supervisors Workshop was designed for both presently employed persons and for those interested in food service production for institutions such as schools, hospitals, or extended care facilities. The workshop was directed by Mrs. Fonda L. Chaffee, assistant professor of home economics.

Classes included cost control and accounting, personnel management, communications, techniques and tools of management, sanitation, safety, layout, and equipment. The agenda included seminars, films, and field trips, including one to the Chicago produce markets.

The course leads to a diploma from AU and eligibility for membership in the Hospital, Institution and Educational Food Service Society on the completion of two summer's workshop programs plus nine months in-service training in the student's own institution. Persons qualifying for college entrance are able to earn four hours of college credit per session by making application to the office of the workshop director.



Seminarian John Volkov received a certificate from course in Home Nutrition Instructors. Above, he demonstrates the use of a microwave oven.

Certificates were awarded to 35 persons in the Home Nutrition Instructors class this summer. One certificate went to D. A. Copsey, newly appointed health secretary for the Lake Union Conference, who registered for the class and wrote the examination.

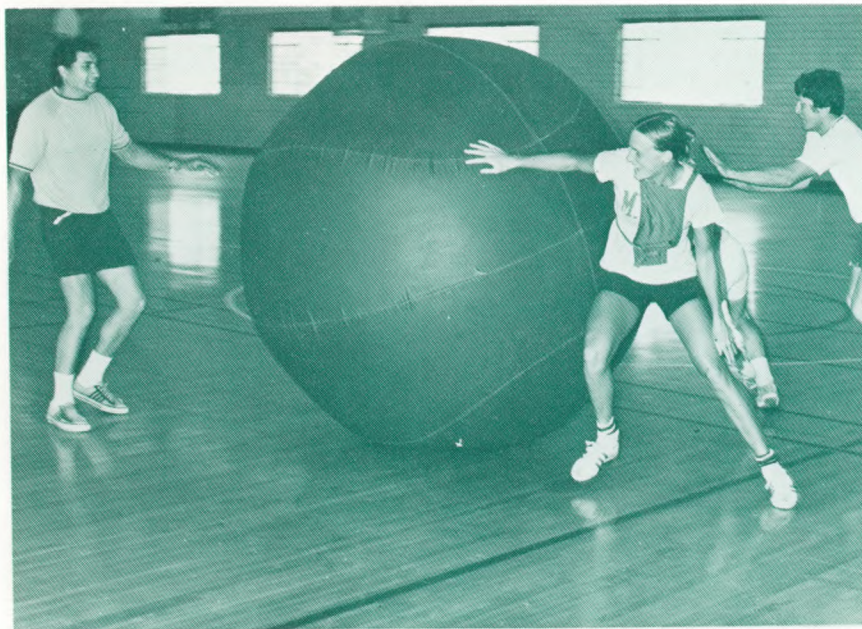
Physical Education

"The objective of Christian physical education is to provide a better way of living, to learn the overall concept of following God's ideal for healthful living. Physical education involves physical fitness including healthful methods of exercise, eating, and spiritual thinking."

Dr. Dan Klein, assistant professor of physical education at Andrews, sees this as the basic philosophy for the two workshops held for elementary teachers and secondary physical education teachers this summer at Andrews University.

The instructors learned the objectives of physical fitness, were reacquainted with the physical needs of the youngsters they taught, and worked out physical education programs which would receive an enthusiastic response from all children. Several physicians, nutritionists, and other experts instructed the teachers in the needs and capabilities of their students.

Teachers from as far as Oregon, Washington, Pennsylvania, and Virginia, participated in developing programs and activities needed to improve the lives of the children in their care.



Robert Kalua, assistant professor of physical education, joins in a vigorous game of pushball with members of the physical education workshop this summer.

Pitcairn Collection Given to Heritage Room Details Early SDA Mission Work

By SHARON LEACH



history is closely connected with that of the church. The attention of the denomination was first drawn there after early church administrators James White and J. N. Loughborough sent Christian literature to the island in 1876 and received some favorable response.

In 1866, an Adventist ship's carpenter, John I. Tay, stopped off at Pitcairn for five weeks and discussed the Bible at length with the islanders.

Left: Colorful stamps portraying life on Pitcairn Island in the South Pacific are displayed at the Heritage Room of the James White Library at AU. The collection was given to Andrews by retired SDA minister R. S. Shepard. Behind the stamps is a color reproduction of the mission schooner Pitcairn, which took the first missionaries to the island in 1890. Sales of stamps to collectors and production of various craft items provide much of the island's income today.

Below: Several old photos show the mission schooner Pitcairn, which made six voyages to Pitcairn Island between 1890 and 1900. The two log books at the top were used by Pastor E. H. Gates to record details of its trips from October 2, 1890, when it first left Oakland, California, through December 2, 1892. The schooner carried Seventh-day Adventist missionaries to the island inhabited by descendants of the mutineers of the *Bounty*.

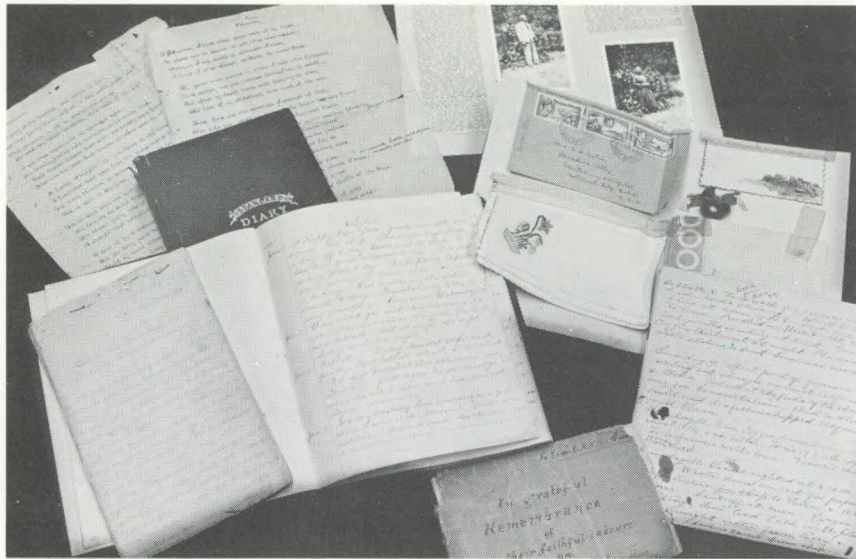
A look at the everyday lives of the first missionaries to Pitcairn Island is provided by the participants themselves through their diaries, recently given to the Heritage Room in the James White Library at Andrews.

The Heritage Room, a repository for many SDA historical documents, now has the complete set of log books and diaries written by Pastor and Mrs. E. H. Gates during their four-year Pitcairn adventure.

The recent donation came from Mrs. Bessie Elyson of Paradise, California, and consists of Pastor Gates' 1893-94 diaries, Mrs. Gates' 1890-94 diaries, a small scrapbook of souvenir items from their stay on the island, some poems written by an unknown author about Pitcairn, and the Gates' autograph book made by the islanders. The archive already had in its collection Pastor Gates' log books, which covered 1890-92.

Most of the people on Pitcairn Island today belong to the Seventh-day Adventist Church, and the island's





Diaries and other items pertaining to the first missionaries to Pitcairn Island were given to the Heritage Room by Mrs. Bessie Ellyson of Paradise, California. The room now has the complete set of log books and diaries written by Pastor and Mrs. E. H. Gates, SDA missionaries who spent the years 1890-94 on the island. Clockwise from left are daily diaries and journals of the Gates, poems about Pitcairn by an unknown author, photos of the Gates, a folder containing souvenir handkerchiefs given to Mrs. Gates, and an autograph album from the Pitcairn islanders to Pastor and Mrs. Gates.

The Gates, both of whom were born in the mid-1850's in Ohio, were passengers on the first voyage of the mission ship Pitcairn, which took its name from its destination and sailed from Oakland, California, in October, 1890.

They arrived at the island in late November of that year, and within three weeks, 82 persons who had been waiting for baptism were baptized and organized into a church.

According to her diary, Mrs. Gates was entering a whole new world. Her voyage as not especially pleasant, and many days' accounts read: "So seasick today, could hardly lift my head." She was quite interested in the marine life she observed, marveling at whales and making a pet of a duck that flew aboard. She notes that she decided to remove her long woolen, winter underwear when the ship crossed the equator.

She was hopeful, and probably a little nervous, about their reception at Pitcairn, and several times comments that "the Pitcairn people I assume are anxiously looking for us." Her hopes were realized, for when they landed, almost all the inhabitants came out to greet the ship. Her first impression endured for the rest of her stay: "We do not have to lock the doors as all are commandment-keepers. This place is more like Heaven than any place I was ever

in," Mrs. Gates wrote in her diary.

She excitedly wrote about their new diet, which included oranges, coconuts, pineapples, and "bannies," and was interested in the chapel's organ, a gift from Queen Victoria.

The diaries are probably indicative of a typical housewife's life during that time, for Mrs. Gates seems to have been continually cleaning, sewing, and ironing. Clothes washing was done in Bounty Bay, and she usually took a swim while doing her chores.

In addition to her housekeeping, she held children's meetings, taught English classes, and conducted "sisters' meetings" which often met at 6 a.m. At one sisters' meeting, she "talked very plainly with the sisters about encouraging young people to get married." She doesn't indicate whether she wanted the sisters to encourage the young people to marry or not to marry.

The diary books she wrote in are of themselves quite interesting. The front page of one tells, for instance, that postcard rates were one cent, and letters cost two cents. It notes that the population of Los Angeles is a whopping 50,000.

It also gives first-aid information: a patient who had been hit by lightning should be dashed with cold water; and the way to tell if a person were dead was to stick a pin in him.

If the pinhole closed up, the patient was alive; if not, he was beyond help.

Elder Gates' diaries give the reader an interesting and helpful concept of what a missionary should be. In addition to conducting church meetings almost every day, Gates was busy helping people thatch their roofs, delivering homemade bread to shut-ins, and giving fomentation treatments, such as brandy sweats, to the ailing. During August and September of 1893, the people on the island were struck by some disease (which Gates never names), and many died. The Pastor had time for few things other than giving treatments and conducting funerals.

The autograph book was given to the Gates as they returned to the States in 1894. Each person on the island wrote his own farewell in it, and it is evident that the Gates were much loved. They are called "Mother and Father," "Brother and Sister," and "Aunt and Uncle" by friends whose names were Christian and Butler and McCoy.

A page written by Hattie Andre, the missionary who replaced them, pleads, "In the rush of America, remember your forsaken, lonely daughter in isolation."

The recent gifts to the Heritage Room from Mrs. Ellyson came to her several years ago from her mother, Mrs. Madge Williams. Mrs. Williams was a Bible worker at the Paradise Valley Sanitarium in California and became a friend of Mrs. Gates, who lived there after her husband's death in 1940. In 1946, just before her death, Mrs. Gates gave the materials to Mrs. Williams.

Award from Texaco

Andrews University has again been selected as one of the privately financed colleges in the United States to receive unrestricted grants under the Aid-to-Education Program of Texaco, Inc., according to Ronald R. Kacic, Texaco district sales superintendent based in Niles.

The \$1500 grant for 1974 is the fourth awarded AU by Texaco and will help purchase equipment for research in physical fitness, said Dr. Dwain Ford, dean of the College of Arts and Sciences at AU.

Centennial Events To Come

Nutrition Lab Established

- October 7-12 Conference on Life**
- October 8 Dr. Berney Newfeld, assistant professor of biology, Loma Linda (Calif.) University and visiting assistant professor in biology, California Institute of Technology
- October 9 Dr. Mailen Kootsey, assistant professor of physiology and pharmacology, Duke University School of Medicine
- October 10 Dr. Richard Ritland, professor of paleontology and geology, Andrews University
- October 11 Dr. Ian Fraser, professor of pharmacology, Loma Linda (Calif.) University School of Medicine
Dr. Gerhard Hasel, associate professor of Old Testament and biblical theology, SDA Theological Seminary
- October 24-29 Convocation—"Searching to Understand God's Creation"**
- October 24 Dr. Wernher von Braun, space scientist and noted lecturer
- October 26 Dr. Godfrey Anderson, research professor of American history at Loma Linda (Calif.) University
- October 26 Dr. Alvin Kwiram, associate professor of chemistry at the University of Washington in Seattle
- October 27 Science Complex Open House
- October 29 Dr. John Hope Franklin, professor of reconstruction history, University of Chicago
- November 13-16 Conference on Family Life**
- November 13 Dr. Charlie W. Shedd, noted author and counselor
- November 14 Dr. Charlie W. Shedd
- November 15 **Emphasis on Health: Nutritional, Physical, Mental**
Dr. Charles Wittschiebe, retired professor of pastoral care, SDA Theological Seminary
Dr. Charles Anderson, department of psychiatry, Hinsdale (Ill.) Sanitarium and Hospital
- November 16 Dr. Charles Wittschiebe
8:00 p.m. Ann Landers
- January 9-11, 1975 Convocation—"Inspiring Commitment to God and Man"**

A nutrition research laboratory has been equipped at the Andrews University home economics department.

It will provide facilities for advanced nutrition classes and special research studies when research grants or contracts are received, said Dr. Patricia Mutch, assistant professor of home economics and director of the lab.



Dr. Patricia Mutch

"The lab is an outgrowth from the fact that the home economics department has always been active in research," said Dr. Mutch. "We never had the space or time for the lab before, but since the biology department moved into the science complex, we have room for it, and we've been able to buy the minimum equipment needed."

The lab, located in Marsh Hall, includes six stations, each accommodating two students, and has space potential for expansion. An adjunct to the lab is the former biology animal house, which has the capacity for 120 white rats needed in experiments. More, page 32

Pastor E. Wayne Shepperd of the Campus Ministry office at Andrews demonstrates the use of recently purchased audio-visual machines as Wilfred McCalla, a sophomore at AU, watches. Three of the cassette tape-filmstrip units will be available for individual student use in the new Spiritual Life Center, located in the basement of Campus Center.



Ford Motor Company Gives Electromagnet to AU

The Ford Motor Company has donated an electromagnet, with a replacement cost of \$40,000, to the physics department at Andrews University.

One of three such units functioning in the U.S., the electromagnet will be used by physicists and chemists at Andrews to study the atomic and nuclear structures.

The electromagnet can be adjusted to provide a variety of magnetic fields that will be used for studies of electron spin and nuclear magnetic resonance, which includes the study of properties of metals and intermetallic compounds. Electro-magneto optical effects is another area of possible study.

Use of the electromagnet can include biological studies on the effects of magnetic fields on biological specimens. Further applications for the electromagnet are being researched. One recent study in New Jersey disclosed that an electromagnet may be used in a screening test for cancer, utilizing blood samples.

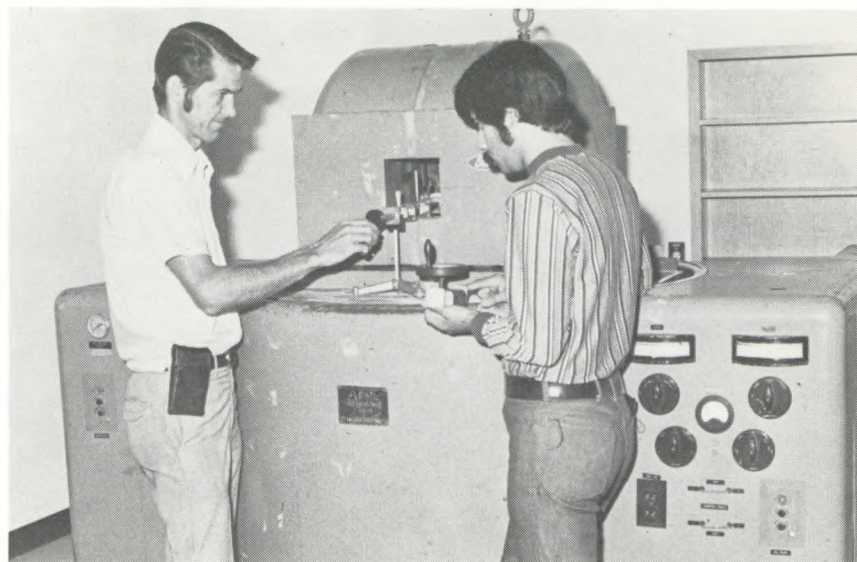
Andrews University will use the electromagnet in research and as a learning tool for students.

LLU Accepts 20 from AU To School of Medicine

The following students and alumni have recently been accepted into the March 1975 class for the School of Medicine at Loma Linda University.

Andrews, Thomas J.
Banks, Linda L.
Beehler, Connie J.
Flagg, Gwen L.
Kalvoda, Donald D.
Ruiz, Victor R.
Shipowich, David G.
(non-degree)
Trott, David C.

According to Dr. Dwain Ford, chairman of the College of Arts and Sciences at AU, this makes a total of 20 persons accepted for both the September and March classes.



Dr. Robert Kingman, chairman of the Andrews University physics department, explains to student Nick Esposito how the gunn diode cavity will generate high frequency waves in the electromagnet given to AU by the Ford Motor Company. The unit has a replacement cost of \$40,000 and is one of only three such models functioning in the U.S. It will be used at Andrews in research and as a learning tool for students.

Nutrition Research Lab—from page 31

Previous research projects by the home economics department include two large studies for the U.S. Department of Agriculture during the 1960's by Dr. Alice G. Marsh, department chairman, as well as her continuing studies in animal and vegetable protein utilization.

Dr. Mutch noted that it is unusual for a small college to have a nutrition research lab for use by students at the undergraduate level. The lab has only the basic equipment for doing chemical research, but Dr. Mutch said she cooperates closely with the biology and chemistry departments of the university, which have much of the additional equipment used in nutrition research. This includes the atomic absorption emission spectrophotometer needed in trace mineral analyses, which is housed in a temperature- and humidity-controlled instrument room in the chemistry building of the science complex.

Dr. Mutch's own research interests are in this latter area, especially in zinc analysis. A 1965 alumna of AU, she received her PhD in nutrition at the University of California, Davis, in 1972. Her doctoral studies were in

zinc nutrition as it relates to prenatal and early postnatal development in experimental animals.

She hopes to undertake research to find how much of the zinc in meat analogs is available for absorption by the digestive tract. Initial research, if funded, would be done with animals, but further work dealing with applications to humans could also be done at AU, said Dr. Mutch.

The nutrition research lab will presently be used by advanced students preparing for graduate studies in nutrition, some premed students, and some advanced students in other disciplines. Several students have already used its facilities for honors projects or independent studies.

These have included June Gibbons, a home economics major who studied thiamine deficiency in rats during pregnancy and lactation; Marquelle Klooster, a biophysics major, who conducted a survey of AU residence hall students to determine their vitamin C status during respiratory illnesses; and Dave Trott, a biology major who studied nitrogen fixation in plants.

\$3,000 Fellowship Provided For 5 EdD Candidates

Five \$3,000 research fellowships will be provided annually for doctoral degree candidates in the Andrews University department of education, according to the board of directors of the Hewitt Research Foundation.

This year's recipients include Nelson Evans, Dennis Moore, Clifton Maberly, and Ingram duPreez. A fifth person is yet to be named.

The doctoral fellowship program will be coordinated by Dr. Conrad Reichert, vice-president for research at the Hewitt Foundation and associate professor of developmental and educational psychology at AU.

Dr. Raymond Moore, president of the Hewitt Foundation, said plans

call for awarding at least \$15,000 each year to EdD degree candidates who will do research for the foundation during one-year assistantships.

"Some will participate in institutional efficiency studies, others in the study of early childhood development, and still others in the area of community improvement," he said.

The Hewitt Research Foundation is an independent, endowed, research and management consulting center organized to help churches, schools, community agencies, and other non-profit organizations become more effective and to do studies related to them. Located in Berrien Springs, the foundation has done government, foundation, and private studies, as well as other consulting projects.

Christensen

from page 22

ters as they recall her tender care over them in past years! And now they are responding to her need. What a privilege! This includes a large majority. But some are still thinking about what they should do, and have taken commitment cards promising to respond and have not responded as yet. Lest you forget entirely your mother's need, will you not sit down right now, offer a prayer for her and her children, and then send a commitment, a token of your interest and good will? Remember, your Mother is calling. I shall be happy to receive your commitments and pass them on to her. She needs your commitment now.

Expectingly yours,
Otto H. Christensen

Next issue of Focus will list the names of all alumni contributors to the Centennial Fund since the campaign began last November.

FAIR PICTURES (from the top)

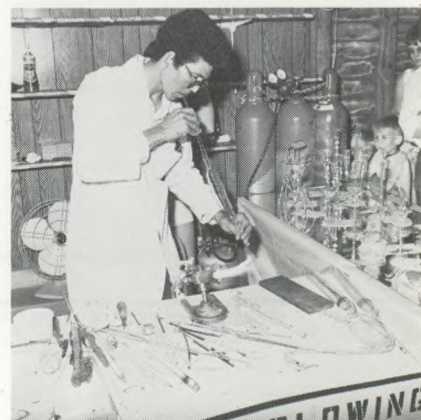
Bev Hanke, a home economist, and Dave Dent, manager of the Andrews University market, answer questions and supply nutritious foods at the University Market booth in the Berrien County Youth Fair. Interest was displayed by visitors to the fair in the vegetarian foods, cookbooks, and the information on healthful and nutritional living. Several hundred people requested information and bought vegetarian products and natural grain breads.

The Andrews University Flower Loft displayed and sold a large variety of plants at the Berrien County Youth Fair, including African violets, panda bear ears, and Tahitian bridal veil. Terrariums and hanging baskets attracted attention from fair goers, and the daily drawing for a free hanging basket drew hundreds of names.

Andrews University was represented at the Berrien County Youth Fair by a replica of the old interurban railroad that ran from South Bend to St. Joseph. Photographs depicting different stages of the development of the college, from Battle Creek to Emmanuel Missionary College to the present Andrews University were displayed. Centennial and informational literature was passed out to several hundred people per day, and on Sabbath several thousand Steps to Christ were handed out. A nurse was present at the railroad booth to take blood pressure for anyone interested and to refer people with health problems to local physicians. Approximately 900 persons were checked at the booth and over 100 referrals were made to their respective physicians. Above, Phyllis Standen who organized the program takes the blood pressure of a Fair visitor.

Swans, fish, birds, and vases are formed under the eyes of fascinated Berrien County Youth Fair visitors. Joshua Ince, a senior art student at Andrews, blows the softened glass into various delicate objects.

AU Goes to the Fair



Who? What? Where? When? Among Our Alumni

*A Look-in on
Some of the
AUA Chapter*



Officers of the Washington, D.C., Chapter are (from left) Elder Gilbert Bertochini, vice president; Miss Verna White, secretary; Elder G. G. Creighton, president; and Miss Rosalie Bensonhaver, treasurer. The photographer was J. Byron Logan, also an alumnus of Andrews.



Members of the AUA Pacific Union College Chapter enjoy refreshments at a chapter meeting.



Minnie Iverson Wood, former director of the Collegians (now University Singers), plays the AU song for a gathering of alumni at Loma Linda, California.



Officers of Loma Linda Chapter are (from left): George Nelson, president; Gene Evers, associate secretary-treasurer; and, at far right, Bob McIntire, vice-president. Not pictured is Elizabeth Haine Bentley, secretary-treasurer. Shown with the officers are V. N. Olsen, president of LLU and Elsie Landon Buck, vice-president of the AUA.

Gayland Richardson, BD '68: minister in Arlington, Texas. Richardson and his wife, **Janel Curl Richardson**, MA '68, have adopted a little girl, Liesl Dawn.

William Robert Sheppard, MDiv '72, and his wife, **Helene Ewing Sheppard**, live in Longview, Texas, where he is pastor of the Longview-Tyler district. He is furthering his studies in the Academy of Adventist Ministers.

Irene Walker, 2-yr certificate '24: retired, working part time at Home Study Institute where she looks after grades 1 and 2 (about 100 children) and the library. "I am sorry not to be there for the Homecoming. I wish to express my appreciation for the paperweight which I received. Having always lived in the village, I used to think of living in Birch Hall as almost as good as to live in heaven. So the paperweight has special significance to me. [Base made from wood from Birch Hall.]

Leonard Nelson, BA '38: on furlough from Africa. Has been in East Africa for five years as English and Bible teacher, the last three months in Nairobi. He has a son, Dr. Bradley Nelson, at the Malawi (Africa) Hospital. Visited recently at Andrews.

Glenn Sackett, MDiv '73: new pastor of Nacogdoches-Lufkin-Rusk district, Texas. He and his wife, Donna, enjoy photography, camping, hiking, canoeing.

Nellia Burman Garber, El Ed '36: director of Health and Community Services at Nacogdoches, Texas. "Christmas comes early in Nacogdoches. Members are talking, planning, and working toward goal of 100 dolls for underprivileged and mentally retarded at Christmastime. The dolls will be cleaned, repaired, and lovingly dressed by the Monday-night section of the society, comprised largely of teen-age girls. Seven of them are non-Adventists who attended last summer's VBS.

Donald Stewart, DDS, BS '69: with Public Health Service in Alaska. Makes periodic flights to Indian villages to give dental care.

John B. Fortune, MDiv '72, and **Karen Lee Aasheim Fortune**, BS (nursing) '71: Located at Hong Kong Macao Mission where Mr. Fortune is publishing department secretary. "I am currently engaged in setting up a publishing program for the mission here. We do not have an existing publishing department, so I find we need everything from pins, paper clips, to order forms, canvasses, file cabinets, and colporteurs. I need urgently pointed canvasses, promotional materials for our magazines, *Signs of the Times*, *Life and Health*, *Listen*, etc.; and books, such as *Bible Stories* (Maxwell), bedtime stories. If anyone can send this type of material, we can utilize it, get it translated and save us a lot of time.

"We are also wanting student missionary literature evangelists to come to Hong Kong to work among the English-speaking peoples. Applica-

tions should go to Duane Johnson at the General Conference. To adapt the words of the Apostle Paul, 'Come over to Hong Kong and help us.'"

The Fortunes have two boys, Mark, 2½ years old and Michael, 7 months.

Wolfgang Struntz, BA '70, MA '73, and **Karen Lickey Struntz**, BS '69: have spent the last year teaching grades 7 to 9 and kindergarten in Botwood, Newfoundland, Canada. They returned to the States this summer.

Mr. Struntz will be in the Counseling department at Union College, Lincoln, Nebr.

Dr. Bruce Ashton, AU music student: associate professor of music at Southern Missionary College since 1968. Performed the first of the year with the Chattanooga Symphony Orchestra. He was featured piano soloist for "Les Djinns" by Cesar Franck, and also played in Ernest Bloch's "Concerto Grosso for String Orchestra with Piano Obligato." Ashton received excellent reviews in both of the Chattanooga newspapers.

Ione Markel Richardson, BS '57, and **Gwynne M. Richardson**, MA '65: have moved to Oregon where they are working in the Stayton District. "It is a privilege to be on the 'firing line' as we see the gathering in of God's people and this old world trembling before God. We appreciate what Andrews did to help us prepare for these exciting days."

Warren S. Ashworth, MA '62, MA '69: Bible teacher at Colegio Adventista del Plata, Entros Rios, Argentina. He and his wife, Carolyn L. La-Tourette Ashworth, in April of 1973, completed 10 years of mission service—5 years in Ecuador running its first rolling clinic and doing district pastoral work, teaching Bible, and serving as departmental secretary. The last five years were spent in Argentina, as departmental secretary and teaching Bible in the college.

"We feel inspiration and pride when we in our travels meet AU alumni of many races and nations serving the Lord faithfully in such diverse areas of the world field."

Elly Economou, MA '67: studying in France. Writes that she has been able to add papyrology to her busy schedule—her favorite study which she had wanted to do for a long time. She is studying under Professor Schwartz, an authority in the field for Europe. "What fun we had spending endless hours in the laboratory under the professor's capable supervision in order to decipher unedited papyri dating from the 3rd to the 1st centuries B.C. The papyri were borrowed from the National Library of Strasbourg.

Senzo Nagakubo, MAT '60, MDiv '61, MTh '62: took final examination for the PhD degree in religion, February 1, '74, at Duke University, Durham, NC. Subject of his dissertation was



Four AU alumni were ordained at the Indiana camp meeting this past summer. Wearing their Alumni badges, they are shown above with their wives. Pictured from the left are: Elder Robert Dale, president of the Indiana Conference; Elder and Mrs. Leslie Speer; Elder and Mrs. James Nash; Elder and Mrs. Gene Stutz; Elder and Mrs. Joel Underwood; and Elder W. L. Murrill.

"Investigation into Jewish Concepts of Afterlife in the Beth Sje'Arim Greek Inscriptions."

Nick and Ruth Satelmajer, BA '68, MDiv '71 and (Ruth) BA '63: announce the birth of Marguerite Nikole, January 26, 1974.

John R. Godfrey, MA '72: teaching at the SDA Central School in Perth, Australia. Enrolled in a master of education program at the University

Alumnotes

of Western Australia in educational measurement and statistics.

Warner E. McClure, BA '27: dean emeritus of Andrews University, and his wife, **Mildred Evelyn McClure**, formerly associate professor of nursing at AU, are living in Loma Linda, Calif. McClure is the Southern California representative for the N. W. Medical Foundation in Portland, Ore.

James Roger Fisher, MDiv '70: writes from Taipei, Taiwan, where he is studying the Chinese language preparing to teach religion and health education at Taiwan Adventist College. Fisher and his wife, **Ann Thompson Fisher**, who taught at the Andrews University Elementary School from 1968-70, have two boys, Jonathan, 3 years old, and Jeffrey, 9 months. Fisher has completed the master's program in health education at the School of Health at Loma Linda University.

Wayne W. Buyers, BA '44: pastor in Fairfield, Wisconsin; serves on the Head Start Board.

Rosemary R. Iles, BS '44: secretary to the director of Trust Services and Corporation accountant at Greater New York Conference of SDA's. Spent several years in Far Eastern Division in mission service.

Fern Wagner Calkins, BA '44: homemaker, married to **Harold Calkins**, BA '43, MA '58, MDiv '66. Living in Glendale, Calif.

Ansel L. Bristol, MA '64, BD '68: minister in Sunnyvale, Calif. Belongs to Academy Adventist Ministers Association of Adventist Forums and International Platform Association.

Samuel C. Robinson, BS '64: farm manager at Indonesia Union College.

James Knotek, MA '64: minister of the Redeemer Lutheran Church in Huntington Beach, Calif. Serves on Board of Directors of the Good Shepherd Lutheran Home of the West and is a member of the Personnel and Scholarship Committee of the Lutheran Bible Translators.

John C. Michalenko, MA '64: retired minister living in Napa, Calif. Still serves part time as associate pastor of the church in Napa, Calif.

Alfonso P. Roda, BD '64: president, Philippine Union College; member of Phi Delta Kappa.

Florence Swartout Smith, advanced normal '14: housewife, married to **Floyd W. Smith**, BA '15. Have served as missionaries in East Africa and are now retired.

Cherie VanArsdale Forsythe, BA '70: housewife, living in Hinsdale, Ill.

Warren Charles Trenchard, BA '66, MA '68, MDiv '68: lives in Western Springs, Ill. Is a PhD candidate at the University of Chicago.

Kay Scott Nelson, BA '65: secretary and teacher in Hinsdale, Ill. Received master of public health degree from LLU School of Health, 1970. Married to **Deane F. Nelson**, MA '62, MDiv '65, minister.

Nellie Jeffers Ross, BA '39: serves as an assistant medical records administrator at Hinsdale Sanitarium and Hospital (Ill.).

Joyce Elaine Miller, MA '72: cashier, living in Hinsdale, Ill.

La Verne B. Heller, 2 year business '32: research engineer, living in Hinsdale, Ill.

Mariellen Ruth Giangrande, BA '72: teaches music at Hinsdale (Ill.) Jr. Academy.

Lee A. Forsythe, BS '71: medical technologist at Hinsdale, Ill.

Erma Lucille Long Serles, BS '65: nurse in Hinsdale, Ill.

Ross E. Hughes, premed '44: dentist in Fishkill, New York. Graduated from Emory University with DDS.

Boaz J. Dompas, MA '64: chairman of the Bible department at Indonesian Union College. Has conducted evangelistic field school every year since 1966.

Roland M. Smith, BA '64, MA '65: minister in Clarksville, MD. Married to **Carole Bowen Smith**, BA '65.

William R. Harbour, MDiv '70: pastor in Canoga Park, Calif. Belongs to Academy of Adventist Ministers.

Sharon D. Chamberlain, BM '64: housewife and receptionist for husband's dental office in South River, Ontario, Canada.



Rolland D. McKibbin

Rolland D. McKibbin, BS '64: business manager of Shenandoah Valley Academy, New Market, Va.; He is married to **Virginia Barclay McKibbin**, a student at Andrews for three years.

Paul C. Heubach, MA '44: professor of applied theology at Loma Linda University. Author of several books and numerous articles for religious magazines; a member of several professional affiliations such as The National Council of Family Relations.

Gladys Witt Gilbert, 3 yr cert. music '19: lives in Holly, Michigan, and serves as a church organist. Husband, **Albert Roy Gilbert**, is deceased.

Paul Genstler, MD, premed '44: medical director at Youngberg Memorial Adventist Hospital in Singapore. Received MD degree from LLU in 1948.

Edna Walker Colburn, BA '24: lives in Newbury Park, Calif., where she has been in the hospital for over a year and a half.

Helen Courville Petersen, BA '24: is living in Phoenix, Ariz. Her husband, **George Petersen**, AU student, is deceased.

Daniel E. Caslow, BA '44: serves as the director of Church Affairs and Community Services for the North Pacific Union Conference. The Caslows live in Portland, Oregon. He and his wife, **Olive Wilson**, have been in denominational work for thirty years in several different parts of the country.

Grace Harrison, BA '24: "well and busy," living in Clermont, Florida.

George Huffaker, BS '65: is a teacher at Hinsdale (Ill.) Jr. Academy. Involved in church work in La Grange, Ill.

Fyrnn Ford Rahm, BA '14, MA '23: "busy helping others and enjoying good health." She and her husband live in La Sierra, Calif.

Gary Councell, MDiv '71: in 1969 he was commissioned Second Lieutenant in the United States Army, and became the first Seventh-day Adventist Staff Specialist to complete the chaplain's training program at the U.S. Army Chaplains' School, Fort Hamilton, New York. He is married to the former **Joyce Elaine White**, and they live in Beach, North Dakota, where he is presently serving as pastor of the Beach District.

Esther Carterette Trummer, BA '44: housewife, living in San Diego, Calif. She returned to school after leaving AU and received her teaching certificate.

F. Patience Noecker, MD, BS '44: physician, living in Antioch, Calif. Involved in activities of many professional organizations.

Jesse Hardy Tyson, Sr., BS '49: pharmacist, living in Takoma Park, Md. He obtained an MA degree from Walla Walla in '56 and a BS degree from Howard University School of Pharmacy in '69.

Mary Race Cherne, BS '48: lives in Luray, Va. She is a homemaker and has received her RN degree and an elementary and secondary teaching certificate from LLU.

Josephine Clayburn, BS Nurs '59: currently director of the School of Nursing at Mountain Sanitarium and Hospital in Fletcher, N.C.

Fidela Senson Hechanova, MMus '72: teacher, living in Berrien Springs, Mich.

Vilma Hechanova Jornada, BM '70, MMus '73: teaches choral music and lives in Berrien Springs, Mich.

Roy A. Jorgensen, BS '20: retired, living at Fletcher, N.C. Has taught and worked at several SDA institutions in southern U.S.

Margaret Irene Schone Kearnes, BA '64, MA '67: has taught elementary school and is now a housewife and student in Berrien Springs.

Mitylene Amoguis Ombiga, BA '60: has been a missionary teacher with her husband, **John**, in Thailand, New Guinea, and Solomon Islands. They are now living in Berrien Springs, Mich.

Alumnotes

Alice Mildred Dessain Nelson, BA '28: retired, living in Hendersonville, N.C.

Lewis Nestell, BTh '31: teaches at Fletcher Academy in Fletcher, N.C., where he has been both principal and teacher for 42 years.

Allene Gooch Hallock, 2 yr dip '31: retired from position of accountant at Broadview Academy after 35 years. Her husband, **Norman R. Hallock**, BA '31, also taught at Broadview Academy in the science department. He is a professional photographer and is making several science movies. They live in Hendersonville, N.C.

Sally Hiscock Perry, BA '53: teaching kindergarten in Holly, Mich. She is married to **George Perry**, BS '61, who is also a teacher. They have three children.

Laurel Palmer Thoresen, 2 yr '55: currently teaching music and is a housewife, married to **F. D. Thoresen**, MD, BA '55. They live in Fletcher, N.C.

Richard F. Serns, MA '59: serving as a minister in Hendersonville, N.C.

Lynn Earle Smith, BA '64: lives in Berrien Springs, Mich. where he is a public school teacher and a general contractor. He is nearing completion of EdD degree at Western Michigan University. Married to **Bonnie Bryan Smith**, BS '63: they have two young daughters.

Leslie Leroy Smith, former student and teacher at AU. Married to **Helen Williams Smith**, home ec dip '27. Retired and living at Hendersonville, N.C.

Eleanor Danneffel Stanheiser, pre-nursing '35: RN, living in Berrien Springs, Mich., and working part-time at Pawating Hospital, Niles.

Gerald R. Nash, BA '27: retired minister living in Hendersonville, N.C. He is married to former student **Mable Moore Nash**.

Philip Moores, BA '38: president of the Ontario Conference. He is married to **Doris Bancroft Moores**, 2 yr dip '38, and they live in Oshawa, Ontario, Canada. Recently they made a trip to Africa and met several AU alumni serving as missionaries in Africa. They brought back good reports of the work of the church in Africa.

Roscoe M. Moore, BTh '29: retired, living in Hendersonville, N.C. He is married to a former student of AU, **Verna Shreve Moore**.

Clyde H. Sayler, former student: lives in Weaverville, N.C. where he is a vocational automotive instructor.

William Russell Larson, former student: lives in Hinsdale, Ill.

Theodore Lucas, former student '24-'27: retired, living in Hendersonville, N.C.

Emilia Manalaysay, former student '53-'54: teaches music and is an organist; lives in Brookfield, Ill. She has pursued other degrees: BSEd., BMus., and MMus.

Verne Kelsey, BA '45: retired and living in Hendersonville, North Carolina. His musical compositions are at Northwestern University in the music archives collected by Hans Molden-

hauer. He is married to **Irma Vinson Kelsey**, BA '47.

Dynsdale O. Spence, MA '72: is the senior counselor for the Berrien County Youth Service Bureau. Is planning to pursue a PhD program at Michigan State University and then return to Jamaica to serve. He is married and has one son. They live in Berrien Springs, Mich.

Class of 1934

(Notes furnished by Harry W. Taylor)

Retirees

Among those who have retired recently or who will be doing so this year are **Lela Pierce** (office secretary San Jose, Costa Rica; Broadview Academy; Indianapolis; Medellin, Colombia; Washington, D.C.; Greenville, Tenn.); **Glenn Houck** (but he was called from retirement in 1972 to go to Africa to help build up the agriculture departments in several of our schools on that continent); **Lorna Lindsay Curry** (food director at Bethel and Maplewood, 1934-1941; then bindery supervisor of student workers at Maplewood and Wisconsin Academies, 1941-1967); **Arthur L. Tucker** (teacher, Bethel, 1940-41; treasurer, 1941-1953, Panama Conference, Central American Union, Antillian Union; cashier, 1953-74, G.C.); **Ed Bruckner** (CWP 1937-1955, Adelpian Mill 1955-1969); **Ed Banks** (minister, Ky-Tenn Conference 5 yrs., Fla. Conference 9 yrs., Ill. Conference 3 yrs.; teacher and dean of student affairs, SMC, 12 yrs.; teacher, Andrews, 16 yrs.; during sustentation days he will hold revival meetings in churches throughout the world); **Malvina Zachary-Taylor** (violin teacher at EMC 4 yrs., Bethel 3 yrs., EMC 8 yrs., AUC 6 yrs., EMC-Andrews 7 yrs.; director of orchestras 11 yrs.; still first violin in Andrews, orchestra); **Harry W. Taylor** (English teacher 40 yrs.: Bethel 3 yrs., EMC 8 yrs., AUC 8 yrs.; EMC-Andrews 21 yrs.; now on sustentation, he is teaching one literature class each term); **Elton Dessain** (treasurer 37 yrs., Ill. and Ind. Conferences).

Full Speed Ahead

Among those who are still going at top-speed (or nearly so) are **Opal Miller** (elementary and secondary teacher, 1934-1937, Little Rock, Mobile, Birmingham; business, 1937-1943, Shreveport; elementary and secondary teacher, 1943-1952, Gentry, Ark., then Union College; business, 1952-1959, Shreveport; 1960-1974 professor of music at Union College); **H. Ray Shelden** (principal and teacher, 1934-1937, Knoxville Junior Academy and Atlanta Junior Academy; 1937-1941, dean of boys and teacher, Indiana Academy; 1941-1945, Research Chemist, Reilly Tar and Chemical Co., Indianapolis; since 1948, chemistry teacher, LLU, La Sierra campus); **Alfaretta Sherman Paulsen** (elementary teacher 39 yrs.: Neenah, Wis. 1 yr.; Ludington, Mich., 2 yrs.; Iron River, Mich., since 1938); **Rebekah Steen Kuhlman** (assisting in the operation of the Kuhlman Motor Sales, a

Pontiac agency, 40 yrs.); **Mildred Ferguson Rottmann** (matron and teacher Adelphian Academy 2 yrs.; medical assistant and physical therapist Glendale 8 yrs.; since then part-time medical assistant and housewife at San Fernando Valley, Yucaipa, and Joshua Tree, Calif.); **Alfaretta Johnson Cooley** (Alfaretta's husband passed away last January—PhD and Registered Dietitian; Boston City Hospital 1 yr.; teaching dietitian St. Joseph's Hospital, Marshfield, Wis. 1 yr.; Southwestern College 2 yrs.; Home Ec. teacher there 4 yrs.; San Joaquin General Hospital dietitian and Delta College School of Nursing, 9 yrs.; White Memorial Hospital and Clinic, 9 yrs.; Glendale San and School of Nursing—also nutritionist—9 yrs.); **Elsie Winders Minesinger** (accountant, G.C., 40 yrs.); **Irene Wakeham** (PhD; Mt. Vernon, teacher of English, French, commercial subjects, history, 11 yrs.; college teacher of English, French, and secretarial subjects, since 1945; acting president MVC 1 yr.; academic dean, dean of students, etc.; chairman department of English, Manila, 8 yrs.; dean of Liberal Arts, 5 yrs.; dean Graduate School, 2 yrs.; chairman Division of Humanities, Oakwood College, since 1971); **Clarence C. Kott** (pastor, evangelist, local departmental secretary, conference president [Idaho Conf.], union departmental secretary; has lived in Calif. for 23 yrs.); **Mary Gartly Kott** (housewife and assistant to Clarence Kott); **Ada Dean Dayton** (elementary teacher, Michigan, 1934-39; medical secretary, Potomac Conference, Washington, D.C., 1939-1952; supervisor at Washington San 1952-1962; lives in Moorfield, W. Va., and Ft. Myers, Fla.); **Ruth West** (office secretary 40 yrs.: Madison, Wis., 6 yrs.; Nevada, Iowa, ½ yr.; Glendale, Calif., since 1941); **Robert H. Hervig** (teaching grades 8, 9, and 10 at Muskegon, 1 yr.; office manager CWP, Broadview, Ill., 4 yrs.; public accountant, Broadview, 2 yrs.; office manager and teacher, La Sierra; U.S. Army X-ray technician, 2 yrs.; accountant and administrator, Hinsdale San, 5 yrs.; office manager, Harding San, 7 yrs.; assistant professor, La Sierra College, 2 yrs.; business manager, La Sierra College [now a part of LLU], since 1959); **Helen Buck Hervig** (taught grades 1, 2, and 3 at Muskegon, 1 yr.; secretary and office manager, CWP, Broadview, Ill., 6 yrs.; homemaker exclusively, 15 yrs.; substitute elementary and secondary teacher, 13 yrs.; secretary and clerical work, registrar's office, La Sierra, 2 yrs.).

I regret to tell you that Helen Buck Hervig and Herald Habenicht* have terminal carcinoma. Let us pray for them every day. May the wonderful Lord take them in His arms and bestow His richest blessings on them—and on their mates! We are praying for them most earnestly, and I know that each one of you will, too. (You will remember that Herald's wife, Kathryn Kilpatrick Habenicht, was also a member of the Class of '34.)

* Died August 28, 1974.

Alumnotes

Nina Williams Vollmer, BA '25: has taught in several SDA institutions and is presently retired, living in Hendersonville, N.C.

Sam R. Tooley, BA '67, and **Janet Lindquist Tooley**, BS '66: living in Flat Rock, N.C. where he is an industrial arts teacher in a junior high school and she is a homemaker.

Francis Douglas Thoresen, BA '55: doctor of medicine in Fletcher, N.C. Married to **Laurel Palmer Thoresen**, 2 yr dip '55.

OFFICERS OF THE CLASSES HONORED AT 1974 HOMECOMING

1914:

(Members—no officers)
Ford-Rahm, Fyrnn Naomi, La Sierra, CA; **Klooster-Potts**, Rena, Silver Spring, MD; **Rathbun-Wohlers**, Bertha, Berrien Springs, MI; **Swartout-Smith**, Florence, Redlands, CA; **Edwards**, H. E., sponsor, Los Angeles, CA.

1924:

Parfitt, Archie G., president (deceased); **Young**, Robert Byron, vice-president, Nevada City, CA; **West-Marsh**, Marjorie, secretary, Takoma Park, MD; **Forrester**, Harley, treasurer, Battle Creek, MI.

1934:

Taylor, Harry W., president, Berrien Springs, MI; **Sheldon**, Raymond, vice-president, Arlington, CA; **Winders-Minesinger**, Elsie, secretary, Takoma Park, Washington, D.C.; **Hervig**, Robert, treasurer, Riverside, CA; **Banks**, Edward C., pastor, Berrien Springs, MI.

1944:

Habenicht, Judson, president, Berrien Springs, MI; **Carterette-Trummer**, Esther, vice-president, San Diego, CA; **Wagner-Calkins**, Fern, secretary, Glendale, CA; **Nutter**, Robert, treasurer, Colton, CA; **Davis**, Kenneth, pastor, Collegedale, TN; **Ryden**, E. D., sponsor, Detroit, MI.

1949 (silver class):

Dillon, Charles F., president (deceased); **Love**, Hugh, newly elected president, Loma Linda, CA; **Brown**, Thomas L., vice-president, Downsview, Ont., Canada; **Duffie-Fahrbach**, Alice J., secretary, Munising, MI; **Trickett**, Wilson L., treasurer, Berrien Springs, MI; **Baird**, Denis M., pastor, Somerset West, South Africa; **Vande Vere**, Emmett K., sponsor, Berrien Springs, MI.

1954:

Strom, Richard, president, Madison, TN; **Antisdell-Battenberg**, Mary, vice-president, Kalamazoo, MI; **Beck-Schleicker**, Frances, secretary, Glendale, CA; **Kierstead**, Avon Lee, treasurer, Battle Creek, MI; **Hill**, Glenn, pastor, Battle Creek, MI; **Schneider**, Wilbert M., sponsor, Glendale, CA.

1964:

Bothwell, Roger, president, Calhoun, GA; **Hatt-Murdoch**, Christine, vice-president, Hyattsville, MD; **Ballard-Meek**, Donna, secretary, Livonia, MI; **Beane**, Kenneth, treasurer, Maitland, FL; **Crosby**, William, senate representative, Maumee, OH; **Alexander**, Wilber, adviser, Yucaipa, CA.

Boaz J. Dompas, MA '64: chairman of the Bible department of the Indonesian Union College. He and his wife, **Elsje**, have five children. Active in the church, he has conducted Evangelistic Field School for ministerial graduates since 1966 and has had 350 baptisms.

in the U.S., and Haley hopes that others in North America will be interested in this "Cows for Korea" project. Inquiries should be directed to **George Haley**, Korean Union College, IPO Box 1243, Seoul, Korea.

Cows for Korea



George Haley's dream is to import 100 cows from the U.S. to Korean Union College. The recent demand for more milk in Korea has hard hit the college dairy.

George Haley, BS '57: manager of Korean Union College Dairy. He writes of Korea's need for milk. "Drink more milk." It sounds like an American Dairy Association advertisement. It is, in fact, the plea of the Korean Ministry of Agriculture to the people in this northern country of the Far East. Korea has been one of the lowest per capita milk users in this part of the world, until recently when the government launched an advertising program emphasizing the healthful benefits of drinking milk. In the past year the public demand for milk has skyrocketed.

"But every day the country is caught short by some 60,000 to 70,000 quarts of fluid milk, not to mention the needs for cheese, butter, powdered milk, and other dairy products.

"One of the major suppliers to the metropolitan Seoul area is the Korean Union College dairy. The KUC dairy has an exceptionally good reputation for producing high-grade milk, and the demand is great on this partic-

ular dairy. It not only has a good reputation for producing top-quality milk, but it also has the reputation of being the only college industry in the Far Eastern Division that makes large enough profits to be of real benefit to the school. In addition to providing work opportunities for students, the profits from the thriving dairy and 250-acre farm built the new modern administration building at KUC campus."

Haley's dream is to import 100 cows from the U.S. to Korea. Because of the expense in feeding and caring for the cattle on a sea voyage, 100 heifers would make a 16- to 18-hour air trip across the Pacific, according to Haley. More student help would be added to the dairy and students could make more of their school expenses. Haley figures the cows would pay for themselves in 12 to 14 months.

Already several cows have been donated to the KUC dairy by persons

Alumnotes

Cleveland Alexander Holness, MA '65, BD '66: living in Jamaica, West Indies, he works for the West Indies Union Conference as youth director and educational superintendent. Married to **Jasinth Anderson Holness**, BS '66; they have two children. Mrs. Holness teaches English at West Indies College Academy.

Kenneth Brian Cronje, MA '70: education secretary for the Zambesi Union in Rhodesia, South Africa. Married to Alice-Marie Marais Cronje.

Jerome P. Justesen, BD '63: after seven years in Brazil, he is now working in the Greater New York Conference as a minister. He is married to **Carolyn Bee Justesen**, BS '62, and they have two sons.

Gideon Chen, BS '66: has been working for Berrien General Hospital, Berrien Springs, Michigan; is leaving to study medicine in the Philippines. He and his wife, Viola, have four children.

Mary Diminuco Momb, 2 yr dip '49: working as a radiation therapy nurse in Hinsdale, Illinois; presently recovering from bone surgery. Married to Dwayne Momb; they have two daughters. She has worked in the area of mental health in the past few years.

Gordon Guild, MA '64: graduated from osteopathic medicine in Kansas City, May 1974; will be interning in Detroit, Mich., for one year. He is married to the former **Carol Abbot**, BA '64.

Forrest K. Sykes, BA '49: having taught in several SDA institutions in the U.S., he is now located in Kenner, La., at the Jefferson Heights SDA Junior Academy.

E. W. Rogers, MA '49: retired; has been presenting a series of studies on the Spirit of Prophecy in northern California churches and schools. He lives in Sebastopol, Calif.

Percy Hallock, BA '24: located at Hylandale Academy, he teaches some classes at the school. His wife passed away last year.

Judson Habenicht, BA '44, MA '69: lives in Berrien Springs with his wife, **Beth Habenicht**, former student.

Jonathan Penner, former student: teaching at Lake Michigan College (Benton Harbor, Mich.) and is living in Berrien Springs, Mich., with his parents.

Mary Jane Tupes Wohlers, pre nursing '44: taking school work at SMC, Ooltewah, Tenn.

Kenneth Oster, BA '44 MA '44, MDiv '68: Elder Oster has returned to the Seminary at AU to do some school work. He is married to **Dorothy Nelson Oster**, BA '45, MA '66, MMus '71.

Douglas F. Wacker, MD, BA '41: a specialist in the field of otolaryngology, he has set up his practice in Lansing, Mich., where he has become an active member of the American Cancer Society. He has also set up a rehabilitation program for laryngectomized patients.

Glenn H. Hill, BA '54, MA '68: pastor of the Urandale (Mich.) SDA

Church. He is married to **Mary Alice Gyde Hill**, a former student.

Bill Shadel, MD, premed '48, BS '49: first secretary and science attache for the American Embassy in Bogota, Colombia.

Donald J. Sandstrom, MA '62: president of Greater New York Conference of SDA's. Married to Hildegard Mae Reinhardt Sandstrom; they have four children and live in New Hyde Park, N.Y.

Olavi Antero Orpana, BD '67: minister; married to Olga Davis Orpana, and they have four children. Live in Sudbury, Ontario, Canada.

John Richard Ford, MD, premed '43, BA '47: was scheduled to spend July and August in Saigon doing relief work in the field of thoracic and reconstructive surgery. His wife, Ida, was to accompany him on the trip to the Far East.

Dr. Ford, who is vice-president of the California State Board of Education, has been instrumental in obtaining the consent for the right to teach the Creation theory in public schools. "Evolution is being de-emphasized as the only possible theory," says Ford; and in the field of social sciences, the scientific validity of the Creation theory will be taught. New textbooks will be written and may be ready for use as early as 1976.

Brent A. Bills, MD, BA '70: in residency program at the Washington Adventist Hospital (Takoma Park, Md.). His wife, **Diana Lynn Segruue**, BA '70 LLU, is a graduate student at the University of Maryland. Mrs. Bills

will teach grade three at the Sligo SDA Elementary School this fall.

Jack E. Nail, BA '52: worked in Missouri for six years and is now in his second year with the Idaho Conference as educational, M.V. and temperance secretary. "Always enjoy the alumni news, but it will always be EMC to me. I've only been back once since I left, so I know I would never know the place. I treasure my years there and the many friends I made while there."

Clayton Breakie, BA '53: principal at the Gem State Academy, Caldwell, Idaho.

Strauss Cubbley and his wife, **Edna**, celebrated their Golden Wedding Anniversary at their home in Redlands, Calif., June 23. A money tree at the reception was dedicated to The Quiet Hour radio program. To date the Cubbleys report they have turned over \$1,059.50 to the broadcast program where she does some volunteer work. The Cubbleys were former teachers at AU, and Elder J. L. Tucker speaker for the Quiet Hour Broadcast was a former pastor of the Pioneer Memorial Church. Mrs. Cubbley writes: "We read the FOCUS from cover to cover. It's a good journal!"

Robert Bouchard, BA '73, MA '74: teaching at Taiwan Adventist Academy, Taching, Kausu, Pingtung.

James R. Hoffer, MA '64: lives in Brazil, serving as lay activities, Sabbath School, and M.V. secretary. Married to Vera Poguljsky; they have four children.

Jean Van Arsdale Purdham, BA '46, sends some verses slanted toward her Emmanuel Missionary College years. She says she wrote the verses under Professor Harold Hannum's influence (former AU professor of music), hoping it might someday be a hymn.

Ed. Perhaps some other alumnus would like to set the words to music for a special Andrews hymn?

EMMANUEL (God with Us)

God with us when the morning doth her golden light diffuse;
God with us when the evening stains the west with changeful hues.
God with us when the sultry noon lies heavy on the grass,
And when the night's star-patterned skies circling above us pass.
God with us as the seasons move in splendid pageantry;
We read Thy loving signature in earth and sky and sea.
Guide us as life's sweet spring shall grow to busy summer days;
And fruitful autumn yield her place to winter's song of praise.
God with us as the thickening signs proclaim Christ's coming near;
When all men's hearts are failing, O keep us free from fear.
God with each missionary heart that strives in service brave
To carry to a dying world the message that can save.
O save us when in justice Thine anger shall consume
All trace of sin and sorrow, all memory of the tomb;
Then in the new earth's glory our joy shall ever be
God's radiant presence with us throughout eternity.

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- Bachelor of Music
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- Business Administration
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- Communication
- Economics
- Elementary Education
- English
- French
- German
- History
- Home Economics
- Interior Design
- Library Science
- Mass Media
- Mathematics
- Music
- Physical Education-Elem. Ed.
- Physics

- Political Science
- Psychology
- Religion
- Secretarial Science
- Social Studies-Sec. Ed.
- Sociology
- Spanish
- Speech and Hearing Sciences-Sec. Ed.
- Teaching English as a Second Lang.
- Theology (Pre-Seminary)

Bachelor of Science

- Agriculture
- Arts and Crafts-Elem. Ed.
- Biology
- Biophysics
- Business Administration
- Chemistry
- Communication
- Elementary Education
- General Science-Elem. Ed.
- General Science-Sec. Ed.
- Home Economics
- Industrial Education
- Information Science
- Interior Design
- Language Arts-Elem. Ed.
- Mass Media
- Mathematics
- Medical Secretarial Science

- Music Education-Elem. Ed.
- Nursing
- Physical Education
- Physics
- Secretarial Science
- Social Studies-Elem. Ed.
- Speech & Hearing Sciences-Elem. Ed.
- Speech & Hearing Sciences-Sec. Ed.
- Zoology

Associate of Arts (general)

Associate of Science (several options for concentration area)

- Accounting
- Agriculture
- Clothing
- Food Service
- General Home Economics
- Graphic Arts

- Natural Science and/or Mathematics
- Secretarial Science

SCHOOL OF GRADUATE STUDIES

Doctor of Education

- Educational Administration
- Educational Psychology and Counseling
- Religious Education

Master of Music

Master of Business Administration

Master of Arts in Teaching

Master of Arts

- Biology
- Education
- English
- History and Political Science
- Mathematics

- Music
- Religion

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Master of Theology

Master of Divinity

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