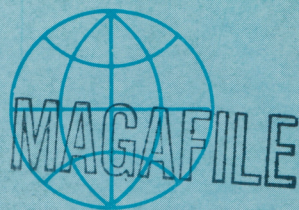
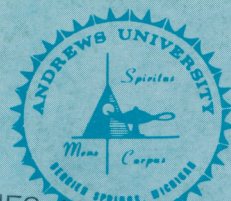


ANDREWS UNIVERSITY

FOCUS



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No. 2

...unto all the world



for a witness unto all...

A Student Missionary Is:

See pages 5-7

AU ALUMNUS REACHES CENTURY MARK



AU President Richard Hammill, signs a giant birthday greeting for Dr. John P. Neff, the university's oldest alumnus. Holding a life-size poster of Dr. Neff are Don Prior, vice president for development and public relations, and Dr. Wilson Trickett, president of the AUA. The old college bell (dating back to 1875) was rung 100 times at noon, April 13, when Dr. Hammill called Neff at his home in West Virginia to offer birthday congratulations on behalf of the school.

Dr. John Peter Neff, a graduate in 1894 of Battle Creek College, fore-runner of Andrews University, celebrated his 100th birthday, April 13, at his home in Sinks Grove, West Virginia. AU saluted its oldest living alumnus by sending him greetings signed by more than a thousand students and faculty. Also the old college bell (from 1895) was tolled 100 times while Neff listened on the telephone.

Neff was born on his father's farm near Mt. Jackson (now known as Shenandoah Caverns), Virginia, in 1873. His father, Elder A. Charles Neff, a pioneer member of the first organized SDA church in Virginia, was the first president of the Virginia Conference when it was organized.

John Neff taught mathematics at BCC for two years after his graduation from there and during the summer held a tent effort in Richmond, Virginia.

Subsequently, he attended the University of Virginia, pursuing further study in philosophy, mathematics, physics, and chemistry. Later he studied at the University of Mississippi, where he received the MA degree. He was president of LaFay-

ette College in Alabama seven years. Returning to Virginia, he was superintendent of city schools in Staunton for twelve years. In Staunton he served ten years as a member of the State Board of Examiners for teachers in Virginia. He was a member of the Board of Directors of the Farmers and Merchants Bank. He was also a member of the committee in Staunton that promoted the interests of the nation under Woodrow Wilson during the First World War in the sale of Liberty Bonds and gathering funds for the Red Cross, the Salvation Army, and other soldier-relief organizations in Europe.


In 1921, Neff accepted the call from the SDA denomination to serve as educational secretary for the Columbia Union. In this position he supervised in college, secondary, and elementary fields for 27 years, or until his retirement. Many of the elementary schools in that union today had their beginning under his guidance.

According to his niece, Mrs. Wallace V. Smith of Quicksburg, Virginia, "Neff's great goal has been to live to see the Lord come, and he has made a good long effort toward that goal!"



Judd Johnston (left) and DeWayne Boyer, start the 20-mile walkathon, May 6, to raise funds for AU's student missionary program. Over \$5900 was pledged by sponsors of the 35 walkers and runners, more than twice the amount raised last year. Johnston, Student Association president, ran the route in two and a half hours; Boyer was the highest paid participant, with sponsorships totaling \$800.

Cover art by Beverly Velting

ANDREWS UNIVERSITY
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... Unto All the World To Teach All Nations ...

by BOB BARKER, sophomore biology student and returned student missionary

BEING A STUDENT MISSIONARY IS:

finding out we're all one big family all over the world . . .
smiling and nodding even though you don't understand what someone is trying to say . . .
brushing your teeth every day to set the example . . .
accepting a snake as a gift when you have no idea what you'll do with it . . .
laughing at jokes that you don't think are funny . . .
seeing your fifth graders open-mouthed at Jesus walking on the water . . .
being an authority on the English language . . .
having your heart torn to pieces when you must leave . . .
trusting completely in God . . .
trying to explain to Buddhists why everybody's always getting shot in America, a Christian country . . .
being able to see more the similarities rather than the differences between you and those of another culture . . .
forming everlasting ties with those whom God has chosen to be part of His kingdom.

Student missionaries reach out around the world to do what they can to help bridge the gap between Christ and those reaching out for Him. They serve as teachers in English language schools, as construction and maintenance personnel, medical evangelists, teachers, and in many other capacities. Beyond this they do whatever else is needed.

A student missionary lives an education. He serves where his talents and witness are needed. He shares what he has, but receives so much in return. The sacrifices seem few when compared with the rewards.

Liz Venden is in Koror, Palau, this year. As her year there nears its conclusion she writes, "I hope God can say of me what little sixth-grade Johnny said when he misspelled 'good' in a short haiku assignment. He said, 'Liz, she very god teacher.'"

Larry Telfor, Adventist Volunteer Service Corps worker in Korea, writes, "I can't thank you enough for this great opportunity to serve God. I hope AU can continue to

send out students every year. I really love working here and will hate leaving."

To the question, "Why do you want to go as a student missionary?" the interviewing committee has received replies like these: "I feel the people there have as much to offer me as I have to offer them." "It's a good chance to see other parts of the world and learn about other people." "I feel this is God's will for me."

At times it gets discouraging and lonely overseas. The work load is heavy and demanding. Sandy Shibley, for example, is teaching 31 class periods a week in the areas of biology, chemistry, typing, and physics, as well as being the co-director of a choir.

Often the response from the students is not positive. Becky Wang, serving in Hong Kong, writes about a couple of her students: "One of my students, Paul, has joined another church because there 'all the brothers and sisters love one another.' I've studied with him about the Sabbath

and pork, etc., because this is his big hang-up. 'We're under grace not the law now.' One of my best students, Dennis, has also joined him. They feel that the other students who were baptized haven't grown spiritually and that it must be the fault of the church. These two boys study their Bible every morning. I encourage them to do that, but sometimes I'm at a loss to know how to help them. In chapel or Bible class, sometimes Paul will deliberately read another book or will go to sleep. I'm trying hard to show him the patience and love that he complains is missing in the SDA church. But where does discipline begin? One



In Osaka, Japan, the teachers frequently go sightseeing with their students. Above, Carol Haynes, currently back at AU, enjoys Osaka castle with a few members of one of her classes. The castle is only two blocks from the Osaka Language School.



Bob Barker (left front), author of article, picnics with some of his students in Sapporo, Japan, along with Dave Miller who is still in Osaka. Miller plans to start another English Language School in Himeji this year.

night I went to the home of Dennis. Paul came along. I took a bus to his town and then climbed a mountain. When I got home that night, I was just exhausted. I wondered if I had done any good. What more could I do to draw them back? That day's Sabbath School lesson (February 26) had just the answer for me. "The unstudied, unconscious influence of a holy life is the most convincing sermon that can be given in favor of Christianity. Argument, even when unanswerable, may provoke only opposition; but a godly example has a power that is impossible wholly to resist." *Acts of the Apostles*, page 511. So I wait and love."

Most of the student missionaries express the closeness with God that a year overseas gives them. Walt Snyder writes, "I'm very happy I've come to Korea because many things look, or seem, so much more evident to me since I've come. Especially the urgency of God's work. When we don't do all that is possible to be done, we delay Christ's second coming. What a beautiful day that will



Crossing the culture barrier, Judy Lohff, student missionary to Haiti last summer, takes a blood sample from a patient at the clinic where she served for the summer. Judy is now a junior-nursing major at Andrews.

be, and how much Christ yearns for that day—even more than we do."

20 New Missionaries

Twenty students at Andrews University have been approved to go as student missionaries this year. Passports, visas, and travel arrangements are now being made. Most of the students will be leaving for their field of service at the beginning of the summer.

These students were enrolled in the spring quarter in the course, "Fundamentals of Mission Service," taught by Dr. Russell L. Staples, assistant professor of mission at Andrews.

Those going as English teachers are also taking the class, "Teaching English as a Second Language," taught by Luanne Bauer, AU instructor in speech.

Financing the Missionaries

Student missionaries are not financed by the school. The Student Missionary Committee solicits funds which will help out only when the prospective student missionary has done all he can to finance his own way. Finances appear to be a major obstacle; but, Linda Sharpe, prospective student missionary to Pakistan, points out: "God has opened all the doors for me to go this year; all the obstacles I thought I had just disappeared." Her ticket is about \$1500, but she's confident the money will come. It really is an adventure in faith, but God does provide. Two prospective student missionaries have received \$100 checks in the mail from people they had not even known. Another student received a check for \$45. Some student mission-



A construction worker's tasks as a student missionary are many and varied. Cy Oster, right, assists Dr. Nieswonger in a hysterectomy in Rhodesia, Africa. Cy is currently at AU, a junior art major.

aries have sold their cars; one student sold his tools to provide the fare. Dave Mosher, prospective missionary to Japan, is getting his friends to sell their blood and donate that money for his fare. Other means of raising money that have been used are private solicitation, summer earnings, parental support, and the Walkathon.

The Walkathon was held this year on May 6—a twenty-mile route. Prospective missionaries and others

helped solicit friends, faculty, and businessmen to sponsor them to walk at a per-mile rate. Funds accumulated go only toward the cost of the student's round-trip ticket.*

The prospective student missionaries invite everyone to participate in this worthwhile project by sending a contribution to help reach out to humanity all around the world. Checks should be made out to Andrews University General Fund and routed to Andrews World Service Outreach.

Personal Note by Author

I was in Japan last year. My first four months were in Osaka; I was then transferred northward to Sapporo. Dave Miller, the other student missionary there, and I tried Bible classes, but only one or two persons came, and then even these stopped coming. We were really discouraged. That was our purpose for being in Japan, but no one was interested.

During the winter we built up our friendship with many of the students and decided to try again. This time we conducted a Bible discussion group at our apartment on Friday nights. We served Japanese tea and crackers or cookies and kept it quite informal. I usually presented a topic in English, such as "God Is Alive," or "The History of the World in the Bible." Then we'd break up into smaller groups of two to four and discuss the topic of the evening or anything else the students wanted to talk about. A colporteur and his wife always came over to help explain in Japanese what we couldn't. Each took a small discussion group as well. Attendance was usually between eight and twelve. Before I left, one student—we called her Susie—accepted Christ and was baptized. Another, Kazuko, has recently applied for baptism.

Discouragement and trials appear as nothing in comparison with the rewards of being a student missionary. Though two souls may seem few for a year's work, it is exciting in light of the fact that in Japan there are only 6,000 Adventists in a population of over 100 million. The challenge is tremendous in such a self-satisfied country.

* Funds raised in the Walkathon totaled over \$5900.



AU student missionary Becky Wang teaches a Form 3 class at Tai Po Sam Yuk school in Hong Kong.



Pulling teeth was one of the many activities in which Dan Wenberg participated as a student missionary. His main task was to work as an airplane mechanic and pilot in the jungles of Peru. Dan will graduate this year from AU with a major in biology.

New Student Missionaries Approved

Twenty students at Andrews University have been approved to go as student missionaries this year. Passports, visas, and travel arrangements are now being made. Most of the students will be leaving for their field of service at the beginning of the summer.

Approved as student missionaries are:

Student	Field of Service	Type of Service
Baptist, Ulena	Cyprus	Elementary Teacher
Bartlett, Sandra	Djakarta, Indonesia	English Language School
Boyer, DeWayne	Malawi, Africa	Science-Math Teacher
Colburn, Ken	Djakarta, Indonesia	English Language School
Ferree, Darrell	Honduras	Construction Worker
Ford, Richard	Ecuador	PE Teacher
Gardner, Sharon	Korea	English Language School
Green, Sandra	New Guinea	Elementary Teacher
Habenicht, Larry	Bolivia	Medical Assistant
Hardy, Brenda	Japan	English Language School
Kubrock, Fred	Ecuador	Construction Worker
Kurzynske, Kevin	Rhodesia, Africa	PE Teacher
Ledger, Susan	Korea	English Language School
Lee, Steve	Rhodesia, Africa	Science-Math Teacher
Mitchem, Denise	Beirut, Lebanon	Elementary Teacher
Mosher, David	Japan	English Language School
Province, Anita	Korea	English Language School
Schwinn, Karl	Peru	Accountant
Scotfield, David	Korea	English Language School
Sharpe, Linda	Pakistan	English Teacher

First Spanish SDA Church in Mich. Organized at Berrien Springs

The first Spanish Seventh-day Adventist Church in the state of Michigan was organized on Sabbath, February 10, in the former Evangelical United Brethren Church, Berrien Springs.

Speaker for the service was R. D. Moon, president of the Michigan Conference of Seventh-day Adventists. His sermon, given in English, was translated into Spanish.

Development of the new church has been guided by Pioneer Memorial Church at Andrews University, and most of its charter members are transfers from PMC.

The Spanish church here began in September 1971, when about 40 Spanish-speaking students and staff members at Andrews University transferred their weekly Sabbath School lesson study from campus to the Ferry Street location.

Use of the building is donated by Dr. Wilson Trickett, who purchased it in 1968, after the EUB church merged with the Methodist Church.

Pastoring the church is Orval Scully, who returned in January from setting up the operation of the Seventh-day Adventist Welfare Service (SAWS) in Bangladesh. Scully, who



Fifty persons became charter members of the Berrien Springs Spanish SDA church when it was organized in February. Above, left to right, are James Valentine, pastor of the group prior to their organization as a church; Orval Scully, who has now assumed the pastoral duties; R. D. Moon, president of the Michigan Conference of SDA's, who spoke at the organizational service; and Anthony Castelbuono, an associate pastor of AU's Pioneer Memorial Church, which guided in the development of the new church.

Many Spanish-speaking persons live in the area the year around, but from early spring to late fall, over 20,000 Mexican-American migrant laborers from Texas and Florida arrive to plant, cultivate, and harvest the abundance of fruits and vegetables for which the region is noted.

Primary goal of the new church is to present the Good News to these thousands of permanent and temporary residents whose spiritual needs are not being fulfilled by English-speaking churches.

has previously pastored churches in Battle Creek and Jackson, has served the Adventist Church in South America for a total of 20 years, including 10 in administrative capacities.

Unusual Challenge

It is an enormous and rather unusual challenge that confronts the 50 charter members of the Michigan Conference's newest church, the Spanish SDA Church in Berrien Springs.

New Academy Planned for AU

Seventh-day Adventist churches in the AU area and in five other nearby communities have launched a fundraising campaign for a new \$1.25 million Andrews Academy, according to Richard T. Orrison, AU lab school director and academy principal.

The new academy will be located on Garland Avenue between Seminary Drive and the Andrews Elementary-Junior High School, enabling the academy to move from the present structure located in the center of the university campus.

The architectural firm is Trend Associates of Kalamazoo, the same firm which drew the plans for the Andrews Elementary-Junior High School.

Special features of the new academy building will be an industrial arts laboratory and a multipurpose room to be used for physical education classes, a lunch room, and a winter recreation area.

The eight main classrooms the academy now uses were built in 1965 by the college and loaned to the academy for a few years only, according to Orrison, who said the building is now too small for operation of a good program.

REMINDERS

- Twenty-five workshops are announced for the summer of 1973 by the School of Graduate Studies and the Seventh-day Adventist Theological Seminary at Andrews University. Applications and detailed information on individual workshops are available by writing Dr. Gordon Madgwick, Dean, School of Graduate Studies, Andrews University, Berrien Springs, Michigan 49104.

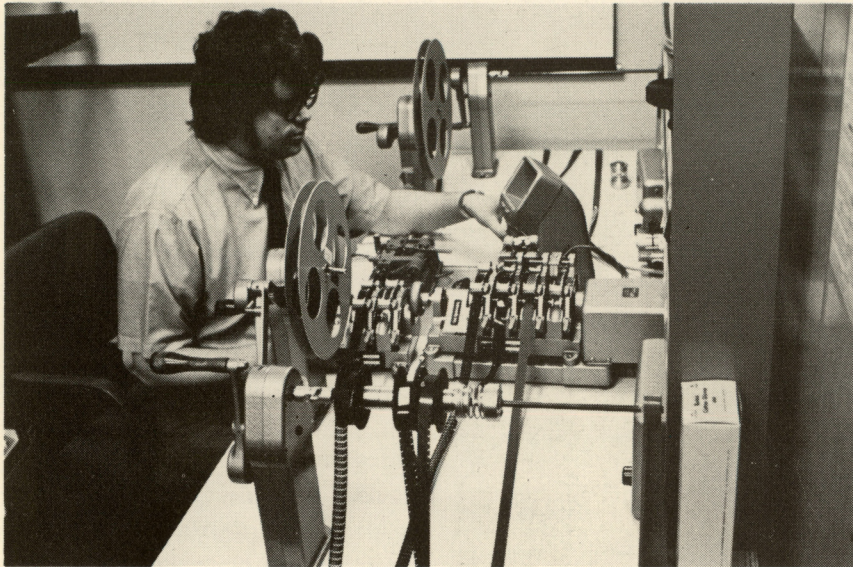
- The regular summer session at AU will be eight weeks rather than the usual ten, with registration set for June 14 and 17, and commencement scheduled for August 12.

The Arts of Communication

by ELDYN KARR, staff writer

"The influence and power of communication today is exerted through small groups—committees, boards, town councils. This is where the work is done. Ministers and politicians are the chief persons who have to stand up and speak to large groups; most other persons do not, and that fact explains the change in

pression to why they believe as they do, in religion or in other areas. "Every person in our Adventist schools should be able to express his views and beliefs in whatever group of which he is a part," she declares. "To sit silent in a small group when one should speak up is a sin of omission we do not want to perpetuate."



Dave Ashton, senior-mass media student, edits double system sound film in the communication department film lab. The department offers three film courses—two production classes and one class in drama and film criticism.

emphasis from public speaking to interpersonal communication," says Dr. Elaine Giddings, chairman of the communication department at Andrews University.

The change in the department's title from speech to communication indicates this change in emphasis as well as a broadening of the curriculum. Besides a major in general communication, concentrations are offered in mass media, and in speech pathology and audiology; minors include general communication, journalism, mass media, and speech pathology and audiology.

Dr. Giddings explains that interpersonal communication is "not just one person talking to another, but is an interchange, a mutual circular kind of process in which much more is going on than just the words."

She believes most Adventist laymen are not challenged to give ex-

pression to why they believe as they do, in religion or in other areas. "Every person in our Adventist schools should be able to express his views and beliefs in whatever group of which he is a part," she declares. "To sit silent in a small group when one should speak up is a sin of omission we do not want to perpetuate."

In public speaking or program situations, she stresses the importance of stopping on time. "We violate other people's rights and their freedom when we overrun time on programs, and it lessens the impact of the message, too! Nowhere is this more true than in Sabbath School, where the lesson study—which should be the most important part of the program—is often squeezed into a few minutes.

"It is vital we teach Christian priorities and that the other person's rights in a situation are sacred," she continues. "Christ was respectful of each individual and this helped make Him a good communicator."

The communication department at Andrews lists seven faculty, each working in a specific area.

English As Second Language

The main emphasis of Luanne Bauer, instructor in communication,



Dr. Elaine Giddings, chairman, communication department.

is on teaching English as a foreign language, the area in which she earned her master's degree. This topic is particularly important because a majority of AU's student missionaries have to teach English. Until recently, the student missionaries from Andrews and other Adventist schools broke many professional rules of effective teaching of English, says Dr. Giddings, who adds that "worst of all, the church was accepting money for doing this!"

In cooperation with the English department, a major is now offered in teaching English as a second language, and the English department also offers the master of arts in teaching degree in this area.

Constitutional Law

Constitutional law, particularly freedom of religion, speech, and assembly, is the chief interest of Dr. Robert Yingst, assistant professor of communication, who holds a JD degree and is working on a master's in interpersonal communication. Besides general communication courses, he teaches "Freedom of Speech," and "Politics and the Media," and next year will be one of three teachers offering a graduate course entitled "Law of the Media."

Speech and Hearing Therapy

Of the 30 to 40 majors in various areas of communication, more are enrolled in the speech and hearing therapy program than in any other.



Participants in a Readers' Theater act are, from left: Lance Harris, Celia Anderson, Gary Bertoni, Phillip Whidden, and Karen Hartson.



Members of the Readers' Theater are (clock wise, from center front): Lolita Van Putten, Celia Anderson, Gary Bertoni, Kevin Stokes, Dottie Rasmussen, Lance Harris, Luanne Bauer (instructor in speech), Sue Venden, and James Hedrick.

Heading the program is Roy Anderson, assistant professor of communication and certified with the American Speech and Hearing Association as a speech therapist. He has also completed training as an audiologist. He is assisted by Lynn Scott, instructor in communication.

While the AU program trains speech therapists to the extent that they complete a bachelor of science degree, complete professional training requires a fifth year, available at Loma Linda University or at a nearby state university.

Students practice the art and skill of speech and hearing therapy in AU's speech clinic, the only facility of its kind in Berrien County. A number of clients are seen on a regular twice-a-week basis, and many others come for one or more appointments. The clients pay fees, making the clinic self-supporting.

Clients range from older persons who have had strokes resulting in aphasia to young children with various speech disorders, some as serious as no speech at all.

The student who is particularly interested in training deaf and hearing-impaired persons gets some practice at the Berrien Springs school for the deaf which has an enrollment of 100.

Anderson is concerned not only with training speech and hearing therapists but also with encouraging parents to take advantage of the services available in most states.

"We're seeing more and more people, many of them professionals," he says, "whose minimal problems in speech and hearing could have been helped very early in life. The person who waits can still be helped, but there's no reason to spend many years with such a handicap.

"As a church, we have not realized what to do about speech and hearing disorders. Our ignorance has kept most children in church schools from receiving the help that the state provides as services to its citizens. Unfortunately, some persons think accepting that help would be a violation of our position on church and state separation; however, that is not involved here, since speech and hearing therapy is a service to the individual child, not the school."

Mass Media Concentration

Aside from the speech and hearing program, the most popular area in Andrews' communication depart-



Lynn Scott (foreground), instructor in speech pathology, mans the Beltone audiometer in the sound suite of the AU speech clinic. Scott is testing the hearing of Charlene Blankenship, sitting on the other side of the two-way mirror.

ment is the mass media concentration, taught by Dr. Dana Ulloth, assistant professor of communication, and James Spoo, instructor in communication. Dr. Ulloth believes many persons using the media for religious programs are giving a bad image to such programming because they do not know the proper techniques of putting together material that is both meaningful and appealing.

"Statistically," he notes, "religious broadcasting gets less than 1% of the listening audience. It's not neces-

sarily that the topics are not relevant, but rather that the methods and techniques are inadequate.

product, there are three more stages—trial, evaluation, and adoption—and these require committed Christians relating to other people on a one-to-one basis. "It's not enough," he says, "for a person to give \$5 to the Voice of Prophecy, and leave the rest of the job to the broadcast."

Within the mass media concentration, courses are offered in film, broadcasting, journalism, and public relations.

"A student may take up to three classes and two projects in film,"

says Dr. Ulloth, "and as far as it goes, our film program is as good as any available. Of course, some state colleges do go much further than five courses." Each film made in the classes must make a statement. Though film is a creative medium, the classes do not teach creativity, but rather present the technical skills and knowledge that enable the student to develop and exploit the creativity which is part of him.

Besides a number of super-8 cameras and the related editing equipment, the department has a 16 mm. camera and complete 16 mm. equipment for editing up to four rolls of film at a time. Original film and work prints may be edited, and synchronization may be done. Magnetic film, that is, film with a soundtrack, can also be edited.

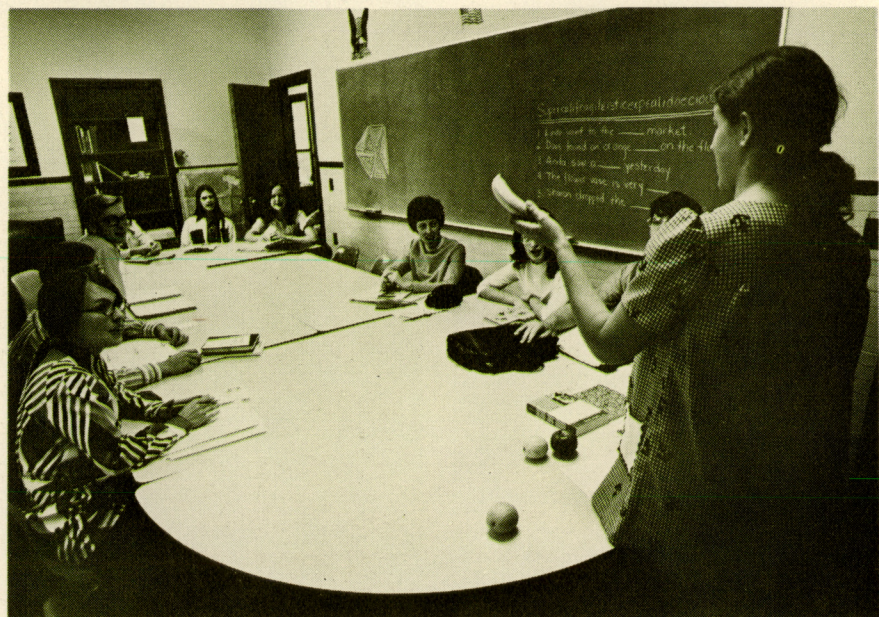
Skill and Perception

James Spoo defines his goal to be "preparing skillful media users and perceptive media consumers." He provides students with professionalism and theory, not just the techniques which could be learned on the job. The courses are intended to benefit not only those students planning careers in the mass media, but also the various other persons such as future pastors and

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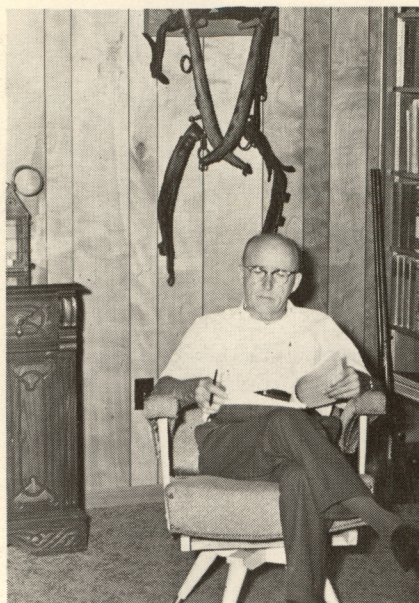


Dan Maitland (left), junior-communication major at AU, receives instruction in public relations during his current internship with the public affairs department of Whirlpool Corporation in Benton Harbor, Michigan.



Linda Sharpe (back to camera), senior-physical education and home economics major, demonstrates the teaching of English grammar with visual aids. Linda is one of ten AU students enrolled in a communication class that trains student missionaries to teach English as a second language. Luanne Bauer (left), instructor in communication, observes the class.

Building to Carry Marsh Name



Marsh, for the third floor, which housed the home economics department.

Dr. Marsh, now retired as professor emeritus of biology, served on the college staff in biology and in the Theological Seminary for twenty-two years. He was chairman of the biology department for a number of years. Mrs. Marsh has been chairman of the home economics department since 1954.

Dr. Frank Marsh looks over his latest manuscript on life origins. He is seated in his "heritage room" under the harness from the plow horse he drove on his father's farm in Aledo, Illinois. Below: Frank some 50 or more years ago.

Mrs. Alice Garrett Marsh works with a pH meter, some new equipment recently purchased for the home economics department.



The Frank Lewis Marsh and Alice Garrett Marsh Hall is the new name designated for the former Life Sciences building, now used by the home economics and nursing departments since the completion of the new science complex at Andrews.

Both Dr. and Mrs. Marsh are alumni of the university and joined the faculty in 1950. They were chairmen of the biology and home economics departments, respectively, when the building named in their honor was constructed in 1955-56. Dr. Marsh drew the plans for the two lower floors of the facility and Mrs.

Those Other* Windows

by VICKI WILLIAMS, freshman

There have been countless parents of students who have helped shape and form Andrews University since it began as Battle Creek College in 1874. Had it not been for self-sacrificing parents there would be no Andrews today. "Those other windows" are dedicated to just such parents.

Three stained glass windows in the balcony of the Pioneer Memorial Church are dedicated to Mr. and Mrs. Richard Henry King who became Adventists in 1907. Upon their conversion Mrs. King (Cordelia Florence Beck) began to work toward sending her children to Emmanuel Missionary College. In order to earn the necessary money, Mrs. King sold buttermilk and onions. Her daughter, Viola King Doering, BA '27, remembers her mother as wearing the same dress day after day.

These windows are also dedicated to three children of the Kings who are deceased; Myron Scott King, MD, premed '22, Floy Myrtle King, and Richard Oliver King.

Behind the choir loft in the Seminary Chapel are three other stained glass windows under which is the inscription, "These stained glass windows presented in loving memory of Mrs. Myrtle B. Donley by her daughter Mrs. Naomi Graham."

Mrs. Graham says she was motivated to give the windows to the Seminary because her mother was always feeding young preachers, colporteurs, students, teachers, and during the depression years housed school teachers free of charge. She was not only the mother of her daughter who attended AU, but also became a mother to many others who at one time or another attended AU.

Naomi Graham, BA '40, and her husband are now members of the Worthington, Ohio, church. She is a housewife working part time on real estate. Mr. Graham is a music teacher in Columbus. They have two sons—the eldest, Stephen, has his eyes on Andrews for next year.

* This story is a postscript to the article in Nov. Dec., 1972 issue of FOCUS on the windows dedicated to AU pioneers.

Twenty-four Saleable Skills Now Offered At AU Center for Occupational Education

Deciding not to pursue a college degree doesn't relegate the 1973 academy graduate to the ranks of unskilled labor. There's something rather new on the Adventist educational scene called occupational education.

With programs that range from 10 weeks to 30 months, occupational education trains persons for widely varied careers. As of next fall, 24 such work-study programs will be offered at the Andrews University Center for Occupational Education, the largest number offered at any Adventist school. A fee of approximately \$765 per quarter covers everything from tuition and laboratory charges to room and board. Skilled credit rather than college credit is offered in the programs.

All our programs are job-oriented," notes Mel Andersen, director of the Center. "One of our goals is to prepare individuals to be self-sufficient—in many cases, they could set up their own businesses." The scheduling of classes in concentrated blocks enables a student to work more hours and therefore earn more per week while he studies than would otherwise be possible.

Core Courses

Besides his concentration area, each

student also enrolls in certain "core" classes, which are also designed to be practical. "These aren't 'whipped cream' or 'filler' courses," says Andersen. "For example, a class called 'Succeeding in the World of Work' shows the student how to do just that, and a communications class teaches effective writing and speaking skills of use in a person's particular work."

Advantages to AU Center Over Other Vo-tech Schools

A major advantage of the programs offered at the AU Center over like courses offered by community vo-tech schools and junior colleges is the Center's dedication to preparing students to be effective Christian witnesses in their work. Underlying this is the philosophy that "no matter what one chooses for a lifework, the purpose of that work is to become a catalyst for practical Christian witnessing in the world where one works and lives." Teachers approach their subjects from the standpoint of Christian workmanship, rather than just the trade itself.

In addition, the student enrolled at the Center is able to associate with students pursuing pre-professional or degree programs. In this way, Chris-



Zoe Collard of Berrien Springs gets practice by setting hair for Mrs. Charles W. Tubbs of South Bend.

tian fellowship and friendship among persons holding jobs of all types can be established even during the education period for these jobs.

Programs Offered At the Center

Programs operating at the Center by the fall term of 1973 are:

Agriculture

Field Crops: seed preparation, growth and development, harvesting and equipment

Horticulture: greenhouse work, plant production

Dairy Training: feeding, dairy-cattle management

Auto Mechanics: Diagnosis, tune-up, repair, and preparation for service station and garage employment

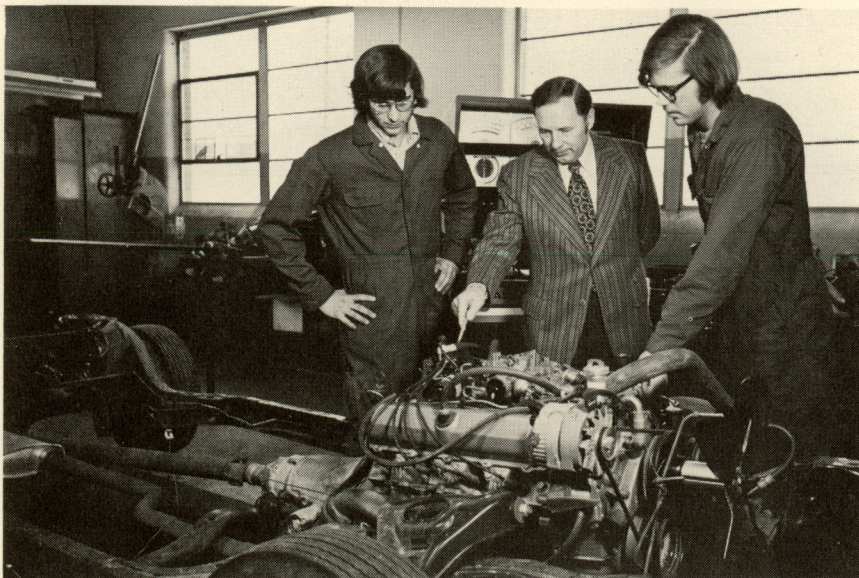
Aviation

Flying: licenses for private, pilot, and flight instructor

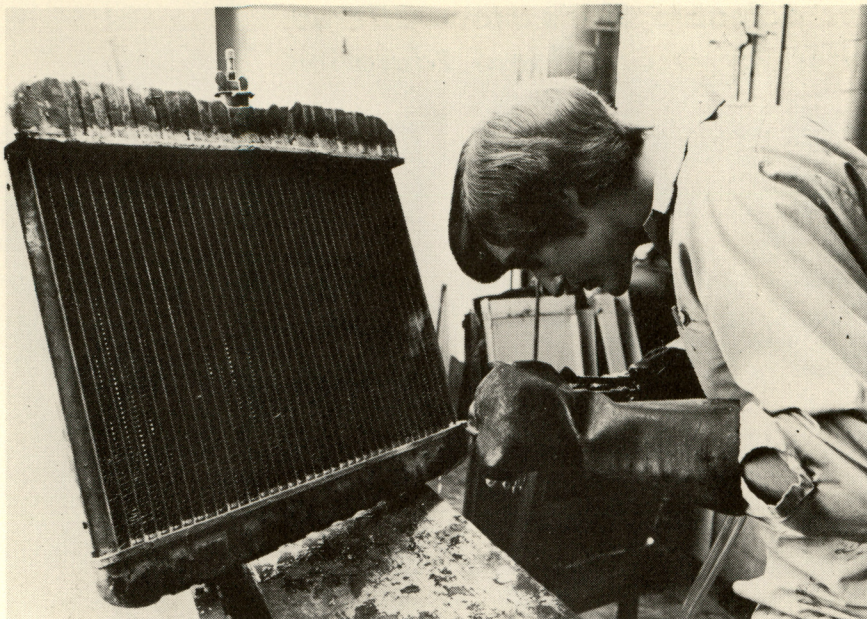
Aviation Mechanics: airframe and power plant maintenance and repair

Carpentry: principles of house framing, including interior and exterior trim

Clerical Training: preparation for office occupations



The chassis of a 1972 Oldsmobile Cutlass, donated to the Center for Occupational Education at AU by the Oldsmobile Division of General Motors, is examined by Jack Watkinson, instructor in auto mechanics and radiator repair at the Center, with students Darrel Hutchinson (left) and Derek Aab. The chassis will be used to demonstrate tune-up, transmission, engine, and front-end work.



Robin Fox from Charlotte, Michigan, works on a radiator-repair job at the Center.

Computer Training

Key-punch Verifier: data processing terms and vocabulary, machine operation

Computer Operation: training in use of modern computers

Programming: analysis and development of computer programs

Systems Analysis: design of commercial programming systems

Cosmetology: study and practice of beauty culture, salon operation

Electrician Training: instruction in wiring for home and commercial buildings, maintenance, code requirements

Masonry: brick and block construction for home and commercial buildings

Plumbing: installation of water supply and disposal systems

Printing

Camera: camera operations, development of negatives for lithography

Offset Press: operation, adjustment, maintenance

Stripping and Plate Making: methods and materials

Radiator Repair: car radiators, air-conditioning condensers, gas tanks, development of a business

Sign Painting: designing, painting, construction, erection, and selling

Upholstering (summer only): covering of new furniture and recovering of used furniture

Welding: use of oxyacetylene, Mig, Tig, AC and DC welding

A bulletin for the Center and an application may be obtained by writing to Mel Andersen, Director, Center for Occupational Education, Andrews University Station, Berrien Springs, Michigan 49104.

Summer 8-Week Course in Radiator Repair

A radiator repair training course will begin June 11 and run for eight weeks, closing August 7.

Tuition for the course is \$275. The dormitory package cost is \$285 and covers room, board, medical insurance, and laundry. This means a total investment of only \$560 to learn a life's trade. The program is arranged so that a person may work as much as 20 hours a week, earning approximately \$250 toward expenses.

Also available this summer are classes in upholstery and computer.

New Courses for Fall

Among new programs to begin in the fall term are electrician's training and sign painting.

The electrician's training is for persons who have an interest in becoming licensed electricians (licensing is a state function and requires four years of training). Work at the AU Center will give starting training in wiring for maintenance and for construction (both home and commercial). The course, taught by a licensed electrician, will cover basic materials used, methods, wiring codes, and on-the-job experience.

Sign painting will include study of the business itself, materials and media, methods, lettering, design, proportion, development of logo or sig, brush work and roller transfer, and related areas.

Career Guidance Workshop Offered

New on the summer scene at Andrews this year is a four-day Career Guidance Workshop, July 13 to 16.

The workshop, sponsored by the Counseling Center, is designed to help persons make a choice of career and is open to anyone of college age or to juniors and seniors of academy or high school. A limited number of persons can be accepted and pre-registration is urged. Fee for the workshop is \$25 and is refundable on cancellation until July 1. An additional fee of \$25 for room and board will be charged if a participant uses university facilities.

Workshop activities will include a series of vocational inventories and interpretations, also counseling by trained AU personnel.

Sabbath, discussions will cover the Christian and his work and denominational needs for workers.

More information and applications are available by writing to Career Guidance Workshop, Counseling Center, Andrews University, Berrien Springs, Michigan 49104.

History Workshop Seeks SDA Teaching Slant

A workshop in Adventist Approaches to the Teaching of History will be held at Andrews University, June 11 to 15.

Through lectures, readings, and discussions, the workshop will explore ways in which various aspects of Adventist theology can be applied to the teaching of history in the classroom.

The workshop offers two credits on the graduate level, and is open to any person who qualifies for admission to the School of Graduate Studies.

Other New Workshops to Give SDA Education Philosophy

Workshops, unique in that they are specially directed to emphasizing the Seventh-day Adventist philosophy of education as it applies to teaching methods and counseling, are: New Directions in English Teaching, June 18-July 27, eight credits; Career Development Workshop for Teachers and Counselors, August 13-24, two credits; and Educational Facilities Planning, August 13-24, four credits.

PORTRAIT OF JAMES WHITE LIBRARY

by MIKE CROSBY, graduate student

Resource areas which include a map reference center, theological library, teaching materials, rare book room, and an archaeological museum help make the James White Library at Andrews University one of the most diversified libraries in southwestern Michigan.

The size of the library has nearly tripled during the past ten years. Originally designed to hold 250,000 volumes, the building currently houses 260,683 bound volumes, as well as 21,612 volumes on microfiche and several thousand more on other microforms. Plans are under way for a major addition to the library which will double the capacity.

The present facility was constructed in 1962 to house the libraries of Emmanuel Missionary College, the Seventh-day Adventist Theological Seminary, and the School of Graduate Studies, following their merger.

"In the ten years since the merger, our chief efforts have been in building the library holdings to a position of strength in the areas in which courses are being offered," said Mrs. Mary Jane Mitchell, librarian.



The ability of a microfilm reader-printer to display and reproduce materials contained on microfilm is demonstrated by Mrs. Mary Jane Mitchell (left), librarian, and Miss Connie Dortch, freshman elementary education student. Here they examine the edition of the NEW YORK TIMES dealing with the assassination of President John F. Kennedy.



Two examples of teaching aids available in the Teaching Materials Center are demonstrated by Nadimi Bibi (rear), graduate English student, and Egilda Zuest, modern language graduate student. Miss Bibi listens to a taped lecture while Miss Zuest makes use of a programmed didacter teaching machine.

LIBRARY PORTRAIT—Continued



The Teaching Materials Center was established as an adjunct to the department of education, but under the supervision of the library. According to Mrs. Mitchell, the center complements the facilities of both the Berrien County secondary school system and the intermediate school district in helping teachers form a curriculum and find materials to make that curriculum interesting. Teachers come from all over the county to use this facility.

Special attention has been given to media which are illustrative of those

One of the many filmstrip kits available in the Teaching Materials Center is examined by Brenda Wernick, senior elementary education major. The kits each contain six filmstrips and cover a wide range of subject matter.

The Heritage Room is the library's rare book area. A volume of the Bomberg Bible (right), the first Hebrew printed Bible, was printed in Venice in 1516-17. A hand-written copy of the hymn book of the ancient Transylvanian Sabbatarians (bottom) was written prior to 1648. A copy of the famous bull against Martin Luther by Pope Leo X (left) was printed in November, 1520, by the archbishop of Augsburg, Germany.

During this period, as the change-over from the Dewey Decimal Classification to the Library of Congress Classification has progressed, duplicate books, superseded titles, books in poor physical condition, and generally worthless material have been discarded.

The staff of the James White Library is composed of a director and 12 staff members with professional library degrees. A non-professional staff of 21, and 59 student workers make up the total of 92 workers in the library.

Recently the library has been designated as a Map Reference Library and as such will receive all new and revised topographical maps of the US Geological Survey. With the purchase of maps of the various other governments of the world, and of US maps not included in the depository agreement, a service will be available in this area of southwestern Michigan that has not been available before.



LIBRARY PORTRAIT—Continued

available to the teaching profession. A collection of textbooks on both the elementary and secondary levels is maintained, as well as curriculum guides, educational reference material, pamphlets, games, and audio-visual kits in specialized areas within subjects.

It is planned that the center will be enlarged and developed in the future so that it can become a learning center for the entire university.

The Heritage Room of the library is the rare book area. Although designated as a Seventh-day Adventist archive, there is a small local and Michigan history section of interest. Much Adventist history is tied in with local history since the church began its operations in the Battle Creek area.

Several early printed editions of the Bible and a set of first editions of Martin Luther's smaller works are included in the archive. In addition, it houses complete holdings of Adventist journals, copies of all printed Adventist books and pamphlets, statistical and other reports, and a collection of mission artifacts. An "oral history" section is being developed to enrich the archive with spoken documentation of various projects undertaken in the development of the church.

Latest acquisition of the Heritage Room is a collection of tools of Uriah Smith, a Seventh-day Adventist pioneer resident of Battle Creek, who was also an avid inventor. Smith is noted for inventing an early school desk, the reversible feature of Pullman chairs for railroad cars, and an artificial leg which could be bent at the knee.

Growth of the Seminary library has been designed to fulfill the research requirements for the doctor of ministry degree, recently approved by the American Association of Theological Schools and the North Central Association. This is the first doctorate to be offered at AU.

"The field of theological literature is reputedly more extensive than that of any other field," commented Mrs. Mitchell. "Although our size of 75,000 volumes in that area is rela-

tively small, it must be remembered that Seminary students have the entire library to draw upon."

Cosmopolitan in interests and tastes, the Seminary library attempts to present all sides of a subject. The greatest in-depth coverage exists in the area of biblical studies.

The library plans to become an associate member of the Center for Research Libraries in 1973. By joining the Center, approximately 3,000,000 volumes will become available to the AU community upon request. This will also make available foreign doctoral dissertations, early periodicals, and Americana from the 17th century on.

Printed book catalogues of the national libraries of Britain, France, and East and West Germany, as well as the Library of Congress and the library of the Teacher's College at Columbia University, are available in the library's extensive bibliographical collection. A complete author and title catalogue of the Office of Health, Education, and Welfare is also on file, along with a number of specialized collections.

The library has a microfilm and microfiche collection which gives access to valuable out-of-print books and materials. Notable among microfilm holdings is a complete set of the *New York Times* (1851 to the present) and the last thirty years of the *Wall Street Journal*. Significant biblical manuscripts have been supplied on microfilm in the Seminary reading room, making possible detailed study of material otherwise inaccessible in

libraries scattered around the world. A number of readers including a reader-printer are available for use of microfilm.

A newer-comer in the microform area is microfiche. This is a sheet of film which can be placed under the lens of a reader and magnified to original or larger size. The film may be reduced from 24 times up to 90 or 120 times. The special libraries on microfiche are "The Library of American Civilization" and "The Library of English Literature to 1400." They are reduced 90 times, called ultrafiche, and will accommodate 1000 pages on a three-by-five film.

The library also subscribes to the reports of the Educational Resources Information Center on microfiche.

Complete sets of many periodicals and journals are kept in bound copies in the periodical room. The library's current subscriptions to periodicals number 2,481 titles. General and special indexes are also available for these journals.

An archaeological museum is also contained in the library. Over 2,000 objects collected over 25 years by gift and excavation are on display. Many items were collected by Dr. Siegfried Horn, professor of archaeology and history of antiquity at AU, during two archaeological digs in Heshbon, Jordan.

Coins, seals, scrolls, objects of fertility, figurines of gods, pottery, stone vessels, and other objects from the third millennium to the present are displayed, with the majority dating from Old Testament times.

AU Receives \$100,000 Grant from Kresge

A \$100,000 grant, to be used in the construction of a new \$1.25 million addition to the James White Library, has been awarded to Andrews University by the Kresge Foundation.

The foundation previously awarded three separate grants totaling \$75,000 to AU to aid in the construction of the \$3 million science complex.

The library addition, to be constructed on the east side of the library, will be financed through funds received from various foundations and the SDA Church. The present facility covers 45,000 square feet and houses 280,000 volumes.

The new addition will give a growth potential of 12 to 15 years at the current rate of book acquisition.

**Physics Department
Receives Journals
Valued at \$1,300**

The physics department at Andrews has been given a collection of physics journals valued at approximately \$1,300 by Dr. Robert W. Young, associate editor for the Acoustical Society of America. The donor is also affiliated with the Naval Undersea Center at San Diego.

The journals, many of them in bound volumes, include a 20-year file of *Physics Today*, 8 years of *American Scientist*, and 28 years of *American Journal of Physics*. The issues date from the mid-1940's to the late 1960's.

**"Pioneers of Modern Painting"
Shown at Andrews University**

A six-part series, "Pioneers of Modern Painting," was shown at Andrews on Tuesday evenings, April 24 to May 29. The series included study of the works of the following artists: Edouard Manet, Paul Zezanne, Claude Monet, Georges Seural, Henri Rousseau, and Edvard Munch.

"From Cow to Soybean"

"From Cow to Soybean" was the topic of a lecture given by Dr. Patricia B. Mutch at Green Bay, Wisconsin, March 8, who discussed reasons for being a vegetarian. Dr. Mutch is assistant professor of home economics at AU.

As a service to the community, the Green Bay SDA church invited Dr. Mutch to speak on planning a meatless diet and the advantages of such a diet. The lecture attracted 100 men and women to the Bellin Memorial Hospital Auditorium where it was held.

Dr. Mutch also participated in an hour's talk program about vegetarianism and nutrition on WNIL, AM, FM, Niles, Michigan, in April. With her were home economics department chairman Mrs. Alice Garrett Marsh; Dr. Herald Habenicht, associate professor of health education at AU; and Dr. David Peshka, AU alumnus and Niles, Michigan, physician.

Arranged for some two months in advance, the program came smack in the middle of the meat strike staged by housewives of America protesting the high cost of meat.

**Two Andrews Faculty
Awarded Doctorates**

Doctorates in the fields of accounting and history were awarded to two AU faculty members at recent commencement exercises. Carl Torben Thomsen, assistant professor of business and administration at Andrews, received the PhD degree in accounting from Michigan State University in East Lansing. His dissertation was entitled "An Event-Relation Approach to a Metatheory of Accounting."

Gary Land, instructor in history at AU, received the PhD degree in history from the University of California at Santa Barbara. His dissertation was entitled "The British Impact Upon the American Mind: 1929-1939."

**Music Students
Give Spring Recitals**

As part of their requirements for graduation, senior music students were scheduled for recitals during the spring quarter in their respective fields of study:

Wanda Cantrell, voice, music major; Carlos Flores, piano, music major; Kathy Friedrich, piano, music major; Shirley Kinsman, flute, graduate music student; Norma Longoria, voice, music major; Carol Mosher, piano, music major; Iphi Parfitt, organ, music major; Albert Payne, trombone, chemistry major; Wendy Pazitka, voice, music major; Arthur Petersen, piano, music performance major; Debra Bakland Richter, harpsichord, music major; Janice Stanton, organ, graduate music student.

Recitals scheduled for music students other than seniors are: Vaida Falconbridge, voice, sophomore music major; Jessica Goh, voice, junior music major; Lester Hands, organ, freshman music major;



Volumes containing issues of the JOURNAL-ERA (Berrien Springs weekly newspaper), dating from 1873 to the present, are readied for transporting to the James White Library at AU where they will be microfilmed. Left to right are George Sarsoun, editor of the JOURNAL-ERA; Jim Ehrlich, graduate history student and president of the history honor society at Andrews; and Gary Curtis, custodial worker at the university. The JOURNAL-ERA began as GOLD AND SILVER in 1873 and later evolved as the BERRIEN SPRINGS ERA and the EAU CLAIRE JOURNAL. The two papers merged as the JOURNAL-ERA in 1931. The paper printed a special centennial edition in late May to commemorate 100 years of publishing.

Dan Hare, organ, sophomore music performance major; Vickie Hyde, piano, freshman music major; Susan LaRose, voice, sophomore music major; Keith Rasmussen, organ, freshman music education major; Lucy Salisbury, clarinet, junior music major.

Pre-marriage Forum Held in April-May

The annual pre-marriage forum for engaged couples was conducted April 8 to May 16. Qualified resource people discussed areas of preparation for the Christian home. The forum was open to members of surrounding churches and friends from the community who plan to be married this summer. Topics covered by the forum included the importance of emotional and physical health in preparation for marriage, problem-solving and communication in marriage, confirming the choice, Christ in the home, expressing love in the home, the economics of the home, and family planning.

World Youth Leaders Meet at Andrews

World youth leaders from the General Conference and union MV leaders across North America programmed weekend services, April 14 and 15, for an MV Youth Rally. Pastors Mike Stevenson and John Hancock of the General Conference were featured speakers.

College Student Leaders Discuss MV Programming

An Intercollegiate MV Seminar was held April 16 to 18, when about eighty student religious-activities leaders from sister colleges across America met on the Andrews campus. They convened to share ideas for spiritual emphasis programming on their various campuses next year.

Outreach Rally Day Brings Area Churches To Andrews Campus

On Sabbath, May 19, members of surrounding churches and their pastors who have worked this



Alan Collins (left), associate professor of art at AU, accepts second prize in a sculpture contest open to artists in nine western Michigan counties from Jay Yelton, vice president of the Miller-Davis Company, Kalamazoo. The company sponsored the contest to obtain a design for a sculptured work to be located on the lobby wall of the new Bronson Medical Center in Kalamazoo.

year with AU students in various programs of public and personal outreach were invited to the campus for a time of sharing together the blessings received. Outreach activities include story hours, Mission '73 meetings, Wayout, health education, and other such activities.

White Presents Paper At Loma Linda University

William White, assistant principal of the academy division of the AU laboratory school, presented a paper at the Association of Western Adventist Historians at Loma Linda University, April 1. The paper was concerning White's research on the Feminist Campaign Against Brigham Henry Roberts.

Belgian Organist Performs at Andrews

Belgian organist Jozef Sluys performed at Pioneer Memorial Church, March 26. Sluys has been the titular organist of the St. Michael's Cathedral in Brussels since May, 1971. For the previous 12 years, he had been titular organist of St. Peter's there. Since 1968 he has also been director and professor of organ at the Rkjksmuziek-academie in Brussels.

Chicago Symphony Orchestra Makes 3rd Appearance at AU

The Chicago Symphony Orchestra performed in the Johnson Auditorium at Andrews on Sunday, April 8, as part of the university's concert-picture series. This was the orchestra's third appearance at AU.

Associate conductor Henry Mazer conducted the performance. Mazer came to the Chicago Symphony in 1970, having served in the same position for the Pittsburgh Symphony from 1966 to 1970.

DeLIVERance

A series of studies advertised on campus as DeLIVERance were conducted by students for interested people on campus and in nearby churches. Held from April 11 to May 2 on Wednesday evenings and weekends, the studies were designed to cover some of the fundamental teachings of the Bible as understood by Seventh-day Adventists. "I hope the series may be the means of encouraging and establishing all of us in the faith," said Steven P. Vitrano, chairman of the department of religion.

Original Art Prints Displayed at Lounge

A special one-day display of original lithograph, intaglio, serigraph, and woodcut prints was held March 5 in the Student Lounge. The collection was from the Lakeside Studio in Lakeside, Michigan; and Tom McCormick, a representative from Lakeside was on hand to answer questions both historical and technical. Valued at over \$100,000, the collection contains prints by old and modern master artists such as Albrecht Durer, Jacques Callot, Georges Rouault, Pablo Picasso, Leonard Baskin, Garo Antresian, Mark Tobey, Sid Chafetz, S. W. Hayter, and others.

C. D. Brooks Conducts Prayer Emphasis Week

The spring week of prayer at Andrews was conducted by Charles D. Brooks, general field secretary of the SDA world headquarters in Washington, D.C. "Forever Faithful" was the theme of Pastor Brooks' series of twelve talks, which were given in the Pioneer Memorial Church on campus. The speaker also counseled with students on an individual basis during his week's stay at AU. Pastor Brooks was educated at Oakwood College, Huntsville, Alabama, and was ordained to the Adventist ministry in 1956. He was appointed to his present position in 1971.

Kubo Publishes New Edition Of Greek-English Lexicon

Sakae Kubo has published a new edition of his book, *A Reader's Greek-English Lexicon of the New Testament*. The book is one of the Andrews University Monograph series (Vol. IV). This is a new edition of a lexicon which was first published in 1967. It presupposes a knowledge of basic Greek grammar and of the words occurring fifty or more times in the NT, which are listed in an Appendix. Words occurring less than fifty times are listed in the order in which they occur in the text of the NT by chapter and verse. After each word are also included two numbers, indicating the number of times the word occurs in that particular book and in the whole NT. The lexicon is designed to help the student spend less time looking up words in regular dictionaries.

International Student Week Theme "One World in Christ"



"One World in Christ" was the theme of the International Student Week observed April 21-27 at Andrews.

According to Erlinda Parchment, chairman of the International Student Affairs Committee, the purpose of the program was to help foreign students who live and study in the AU community, to encourage comprehension and relationship, and to promote high social and spiritual ideals of international cooperation. Foreign students made up 17.9%

of the total enrollment at AU, one of the highest foreign-student percentages of any university in the US. In addition, over 30 members of the AU faculty are foreign-born.

"We want to teach both American and foreign students a degree of openness and tolerance instead of expecting assimilation on one side and instant cosmopolitanism on the other," says Pietro Copiz, assistant professor of modern languages and sponsor of the International Students Club at AU.

CPA's Host Students

The Association of Adventist CPA's hosted 11 accounting students at a banquet at Win Schuler's, Stevensville, April 29. Nine of the students are in school at AU this year; two were students last year and are working with CPA firms this year, according to A. E. Klein, associate professor of business administration. Staff member C. Torben Thomsen and former staff member Earl Beaty also attended the banquet. Speaker for the occasion was Robert E. Hansen, president of the SDA-CPA Association. According to Klein, the association provides funds for transportation for student interviews with various CPA firms and hosts prospective accounting students at banquets from time to time.

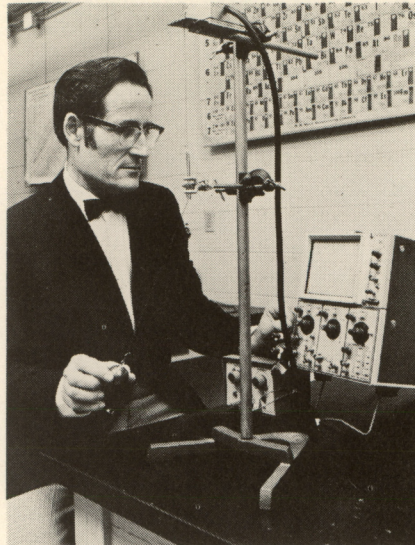
Workshop Held at Andrews For Science and Math Teachers

An In-Service Workshop for Secondary Teachers of Math and Science was held February 22-25, at Andrews in the amphitheatre of Halenz Hall in the AU science complex. Approximately 30 Seventh-day Adventist academy and junior

academy teachers from throughout the Midwest attended the meetings, which were also open to area high school science and math teachers. The workshop examined recent developments in the fields of learning theory, mathematics, and theoretical and experimental science, so that more effective teaching methods can be postulated, according to Dr. Robert Kingman, chairman of the AU physics department.

Role of Laity Discussed During Mission Emphasis

"The Role of the Laity" was featured during the annual Mission Emphasis Weekend at Andrews in February. The topic emphasized the mission of the individual Christian, rather than the missions established by Christian churches. Guest speakers for the event were Clyde O. Franz, secretary of the General Conference of SDA's; Duane S. Johnson and Dr. B. E. Seton, associate secretaries.



A strain gauge balance, used to measure forces while they are changing, is demonstrated by Bruce Lee, associate professor of physics at Andrews. Lee received an award of merit for its development from the American Association of Physics Teachers at a convention in New York City.

reception at 2 p.m., as well as a concert by the Capella da Camera, a baroque ensemble, at 6:45 p.m. The Art Center is the former chemistry building, which has been remodeled since the chemistry department moved into the science complex last fall. Plans for the Art Gallery, according to Constantine, include traveling exhibits, one-man shows of noted regional artists, and a once-a-year student show. The gallery has been designed with excellent acoustics, and music recitals will frequently be held there also. Works by Stephen Pearson have been shown at several exhibitions, including the All-Michigan Show at Flint Institute of Arts, Flint, Michigan; a national show at the Butler Institute of Arts, Youngstown, Ohio; and at a number of shows locally.

McArthur's Team Wins College Bowl Finals

Ben McArthur's team defeated John Nay's team in the college playoffs Monday, February 26. The final score was McArthur, 255 and Nay, 235.

McArthur's team was comprised of: Ben McArthur, senior-history; Dan Drazen, junior-theology; Kevin Stokes, senior-behavioral sciences; and Ray Sterner, senior-physics. Nay's team members were: John Nay, junior-prelaw; Adele Waller, senior-English; Craig Anderson, junior-math; and Polly Cinquemani, sophomore-premed. Dr. Richard Schwarz, chairman of the history department, served as moderator and Leonard Hill, AUSA adviser, judged.

The college bowl was organized this year by Kimber Smith, chairman of the AUSA Educational Standards Committee.



Over 3,000 persons attended the annual International Food Fair held at Andrews, Sunday, April 29. Above, foods of India are served from a booth with a Taj Mahal setting. Sponsored by the Graduate Guild, foods of many countries were served from colorful booths.

Art Gallery Opens With One-man Show

The Art Center Gallery at Andrews held its grand opening, Sunday, April 15, with a one-man show of abstract paintings by Stephen Pearson, art major from California. Greg Constantine, chairman of the art department at AU invited the public to attend the opening

History Honor Chapter Organized at Andrews

The Omicron Lambda chapter of Phi Alpha Theta, national honor society of history, was organized this winter, at the home of Dr. Gerald Herdman, AU assistant professor of history. Present were

nine former members—Dr. Richard Schwarz, professor of history, Dr. Don McAdams, associate professor of history, Dr. King-yi Hsu, associate professor of political science, Dr. Gary Land, instructor in history; students Harvey Brenneise, Bob Bouchard, Jeff Dupee, Ben McArthur; Dr. Herdman (sponsor of the club), and eleven initiates. Initiates were Noel Brathwaite, Jim Erlich, Judy Myers, John Nay, Peter Prime, Eugenie Prime, Dave Penner, Dan Salisbury, Kimber Smith, Francois Swanepoel (teacher), and Adele Waller.

To join the society the undergraduate student must have 18 hours of history completed with a minimum gpa of 3.5 and 3.25 in their elective courses. The graduate student must have a 3.5 gpa in his courses.

Officers chosen were Jim Erlich, president; Harvey Brenneise, vice president-historian; Judy Myers, secretary-treasurer.

College Day Activities Attract Academy Seniors

College Day activities at Andrews brought seniors from Lake Union academies and high schools, April 22 and 23. The program provided opportunity for the visiting students to become acquainted with AU campus and facilities, to counsel with AU staff about classes, work, and financial aid. Entertainment and education were provided by an Educational Fair, a banquet, addresses by administration, a basketball game (academy seniors vs. college freshmen), a Concert-Picture number, and swimming.

Campus Community Club Sponsors Craft, Hobby Show

A Fine Arts Craft and Hobby Show was held in the Johnson Auditorium at AU on Sunday, March 11, sponsored by the Campus and Community Women's Club. Proceeds from the event were given to the worthy student fund, according to Mrs. Dan Klein, president of the club.

Deming Honored by LLU

Miss Ruth Deming, assistant director of food service at AU, has been named Alumnus of the Year by the School of Dietetics and Nutrition, Loma Linda (California) University. Miss Deming received her award on April 7 at the university's alumni homecoming. She was recognized for her contributions in food service and nutrition in the Far-Eastern Division of SDA's. She worked from December 1971 to July 1972 helping to establish the food service for the Hong Kong Adventist Hospital.

Miss Deming joined the AU food service staff in July 1969. Formerly, she was director of food service at Monterey Bay Academy, Watsonville, California, for three years. She also served in the same position and was dietitian at the Glendale (California) Adventist Hospital.

A graduate from Walla Walla College, College Place, Washington, Miss Deming received the master's degree from LLU in 1965 and completed dietetic internship there in 1961. Her name appears in the 1972 volume of *Outstanding Young Women of America*. She is a member of the American Dietetic Association, the Michigan Dietetic Association, and the Seventh-day Adventist Dietetic Association.

Gymnics Give Home Performances

The AU Gymnics, now in their fifth season, presented three home performances in the Johnson Auditorium at AU in February. "Physical Panorama 1973" combined music, costuming, and humor with acrobatic feats. Light "pops" music typified the flavor of the performance and provided background for routines on the teeter board, horizontal bars, uneven bars, the trampoline, and balancing apparatus such as blocks and chairs.

To Perform at Campmeetings

The Gymnics have appeared in performance at many local high schools and SDA academies during this season, and they will perform at Lake Union Campmeetings during the summer, says Robert Kalua, gymnastic coach and instructor in physical education at Andrews since 1968.

"Like Father, Like Son"

The Aerialaires of Blue Mountain Academy, Hamburg, Pennsylvania, have made their debut this school year under Coach Stan Detweiler, BS '72. Detweiler was on the AU Gymnics team during his years at Andrews. True to his training under Coach Kalua, Detweiler explains that the main purpose of the Aerialaires performances is to share the joy of Christian living with fellow church members in their area.

Institute in Mountain Biology and Earth Science Offered by Andrews University This Summer

The biology and earth science departments of Andrews announce a three-week post-summer session to be conducted in the mountain area of Western Wyoming. Purpose of the courses is to provide opportunity for biology and general students to gain an insight into the vistas of field biology and earth science.

Dates for the institute are August 12 to 31, inclusive.

The areas of study are the mountains and basins of Western Wyoming and adjacent Montana, which exhibit a richness and diversity of both biological habitats and geological exposures. This provides a uniquely favorable situation for the study of field biology and earth science.

Courses available are: Biology 453, ecology, 4 units; Biology 521 or 480, paleontology, 4 units; Geology 271, geomorphology, 4 units; and Biology 401, 655, special topics or research, 3-5 credits.

For further information and applications, write Dr. Richard Ritland, Biology Department, Andrews University, Berrien Springs, Michigan 49104, or contact the secretary of the department in Room 216, Price Hall.

SEEING GOD THROUGH SCIENCE

The World Within a Living Cell

By

Dr. Leonard Hare, Professor of Biology, Andrews University



Dr. Leonard Hare

Our home planet is but one of nine that orbit the sun in our solar system, yet only on earth do conditions seem ideal for the support of life. Two of the planets are so close to the sun that their surface temperatures are too hot for life to exist. Five of the planets are so far from the sun that its feeble rays cannot warm their surfaces enough to sustain life processes. Four of the planets are so large and their gravitational forces so intense, the human body would be crushed. Three are so small their gravitational forces are insufficient to retain an atmosphere.

Here on planet Earth life flourishes. One and one half million diverse species of living organisms walk, hop, or crawl on the surface; swim, float, or splash in the waters; soar, flap, or buzz in its atmosphere; or remain determinedly rooted to the substratum. The study of this bewildering array of living things is full of beauty, fascination, and surprises. In Proverbs 30:17-19 the wise man exclaims in wonder, "There be three things which are too wonderful for me, yea, four which I know not: the way of an eagle in the air; the way of a serpent upon a rock; the way of a ship in the midst of the sea; and

the way of a man with a maid." In the three thousand years since those words were written the wonderment at life and nature has not diminished even though we can now discern a thin thread uniting this bewildering diversity called life. That common denominator is the fact that all living things, from elephants to moss plants, are composed of fundamentally similar sub-units called cells.

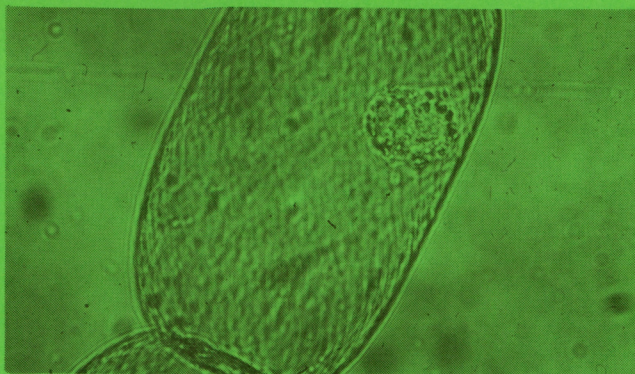
Robert Hooke in 1662 set up a demonstration for the members of the Royal Society. Peering into a primitive microscope at a razor-thin section of cork, the astonished dignitaries could see that the cork was made up of compartments. Hooke called these compartments "cells." Others helped with much of the ground-work, but it was Schleiden, a German botanist, who, in 1838, convincingly argued, "Higher plants are aggregates of fully individualized, independent, separate beings, namely the cells themselves." One year later Schwann, a German zoologist, extended Schleiden's conclusion to include animals as well.

Cell Theory

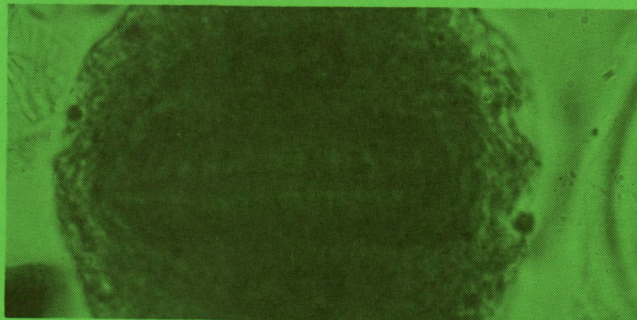
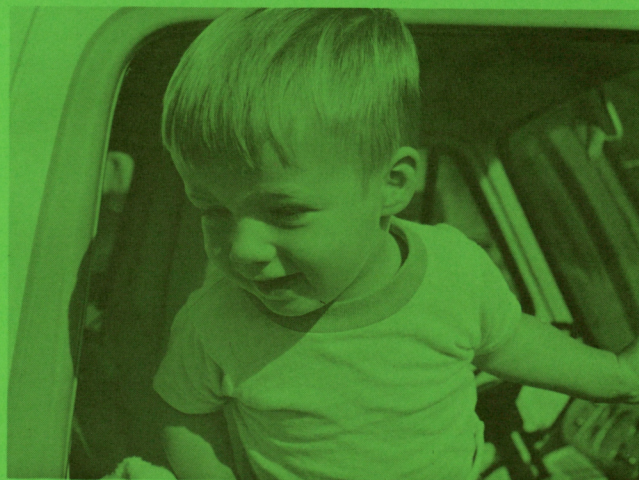
The Cell Theory, as set forth by Schleiden and Schwann, proved to be the key that has opened to biologists' view, all life as a cohesive whole. Recognition of structural and functional similarities in the cells of widely diverse organisms has provided a unifying theme in an area that can now be, not only beautiful and fascinating, but sensible and reasonable as well.

Cells vary in size from the pneumonia bacterium with a diameter of $150\text{ m}\mu$ (0.000006 of an inch) to an ostrich egg with a diameter averaging 150 mm (6 inches). If both cells were enlarged by the same degree until the bacterium achieved the size of the ostrich egg, the ostrich egg would be more than 94 miles in diameter! Most cells are between 10 and $30\ \mu$ in diameter. A cell $15\ \mu$ in diameter and an ostrich egg enlarged until the cell is as large as the egg would result in an egg just less than one mile in diameter.

All cells have boundaries formed by selectively permeable membranes which regulate all communication between a cell and its neighbors or with the non-living environment. The membrane is only $10\text{ m}\mu$ thick, but it plays a vital role in regulating, shall we say, "foreign exchange." Fuel, raw materials, and oxygen are given a red-carpet welcome while manufactured products and waste materials and combustion products are unceremoniously dumped. The membrane is very discriminating as to what molecules are permitted to enter or leave the cell. Undesirable aliens (ions) are kept at bay and, if they slip in, are immediately "pumped" out by activities



From a cell—the wonderment of living things!



A dividing cell. The contents of the nucleus have undergone replication and have divided. Each group of chromosomes will be surrounded by a new membrane. The separation of the cytoplasm is almost accomplished. When completed there will be two identical cells in place of the original cell.

centered in the membrane. Membranes are used to provide a wrapping material for other cell components, as will be seen.

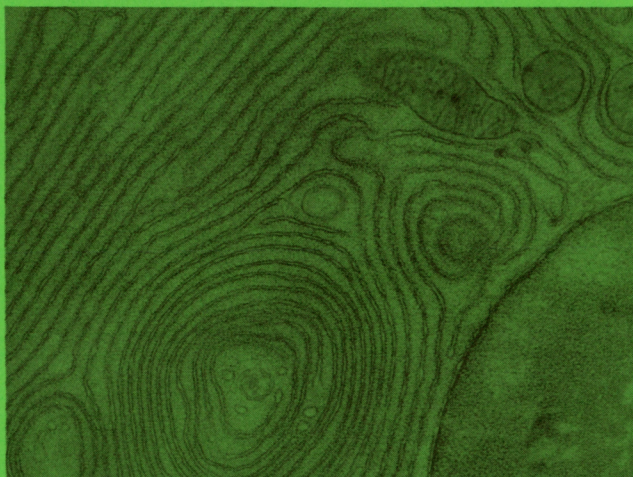
It might help us to think of the cell as a factory. Energy is vital to both cell and factory, and an industry that generates its own electricity would be a good model for comparison. In the cell, rather than one huge central power plant, many tiny power plants (the mitochondria) are scattered about the factory. Sugar, rather than coal, is the fuel, but the combustion is supported by oxygen as in the factory furnace. The cell "electricity" generated is a high energy molecule called ATP.

Mitochondria have an average diameter of about 0.5μ , but may vary in length from 0.5 - 7.0μ . An average mitochondrion 1.5μ long and an ostrich egg, if enlarged until the mitochondrion is the size of the ostrich egg, would result in an ostrich egg 14 miles across! Mitochondria are wrapped in not one, but two layers of membrane. The inner layer is wonderfully convoluted to provide greater surface area for the generation of cell "electricity" (ATP).

An efficient and well-informed management is, of course, essential to both cell and factory. The nucleus is the cell's administrative office. Two layers of membrane separate the nucleus from the rest of the cell. We enter a tiny pore through the double membrane and discover ourselves in a super filing and records office. Fortunately security is relaxed and most of the "top secret" signs have been taken down. The essentials of the recently declassified information of cell management is as follows: Precise details concerning each step in the total cell process is reduced to twisted strands of coded DNA molecules (the master template). The DNA is folded and put into a file folder (the gene). Many file folders, each representing individual steps, are crammed into a file drawer (the chromosome). The number of chromosomes is usually constant and characteristic for any given species. For instance, an onion has 16 chromosomes, a man has 46 chromosomes, and a crayfish has 200! Let us assume a specific step is to be carried out. The coded DNA for that step unravels (gene activation). Copies of the linearly coded gene message are made and the messages themselves become the messengers (messenger RNA)! Each messenger hurries from the office (nucleus) to the factory floor (the cytoplasm) where the assembly lines (the endoplasmic reticulum) are located.

The messenger is immediately beset by a crowd of eager decoders (Transfer-RNA) and enthusiastic workers (ribosomes). There are twenty different kinds of decoder, each firmly attached to one of twenty different amino acids. Once every code position (codon) of the messenger RNA has been "recognized" by a decoder, the ribosomes begin their work. Ribosomes are rather tiny. They measure a mere $20 m\mu$. Using our previous scale of comparison with the ostrich egg: by the time our enlarged ribosome reaches the size of an ostrich egg, the egg would exceed 700 miles in diameter! Using the m-RNA as a track, the ribosomes attach themselves and begin moving. Each decoder is bumped off the track after it hands its amino acid to the ribosome. When the ribosome has lurched past, another identical decoder with its amino acid takes the position just vacated. By the time each ribosome has slipped off the end of the track

it has acquired a long string of amino acids *all in the exact order specified by the genetic code*. The amino acid chain is called a polypeptide. With some twisting and bending the polypeptide becomes a protein and proteins are the very stuff of life. Proteins constitute, not only important structural components of the cell, but may act as catalysts that regulate biochemical reactions. Many hundreds of these protein catalysts, called enzymes, serve on assembly lines where at each step changes are brought



The cell factory organization. The nucleus is at the upper left, three mitochondria are just below the nucleus, the parallel lines outside the nucleus comprise the endoplasmic reticulum, and the tiny dark granules between the endoplasmic reticulum are the ribosomes.

about in molecules that are being transformed into end products, such as hormones, that will be exported and have far-reaching effects on the organism.

The growth of an organism results mainly from an increase in cell number. There is no good analogy to cell division in our factory model so you will have to let your imagination run riot! Picture first a stealthy accumulation of genetic code letters (nucleotides) followed by a duplication of every single gene message in the records office. It does not stop there. There is a doubling of file folders (genes) and even a doubling of file drawers (chromosomes). When all is in readiness, the barriers (nuclear membranes) delimiting the administrative office (nucleus) disappears and a precise division of the replicated file drawers takes place (mitosis). Each complete set of chromosomes is covered with new membrane and there is an ordered pandemonium in the cell cytoplasm between the two nuclei as a separation of cell contents (cytokinesis) takes place. The completion of this process replaces one cell with two daughter cells. No one ever heard of a factory doubling in this manner!

Any well-run factory would have to devote some of its efforts to housekeeping activities. The shipping, custodial, and maintenance divisions of the factory have their cell counterparts in the Golgi Assembly. Manufactured products are packed by the assembly into tiny membrane sacs and moved to the cell perimeter. There the membrane of the sacs deftly merges with the cell-limiting membrane and suddenly the product has been exported!

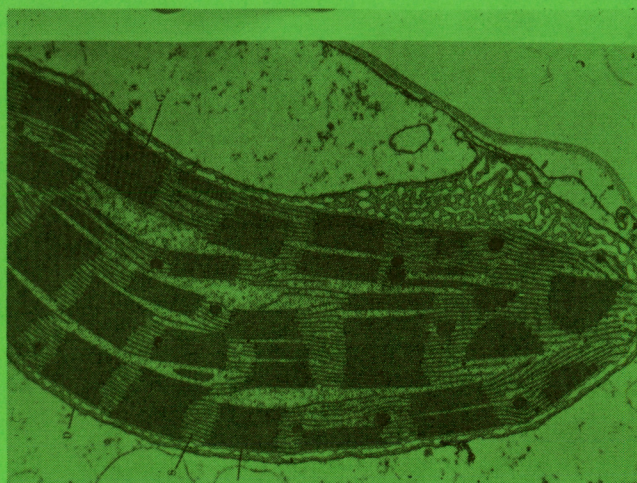
Thousands of similar cells may dump their products into a tiny duct where the accumulated material may be moved by the blood stream to other parts of the organism

where it exerts an important regulatory effect. Waste products may be excreted from the cell in a similar manner. In plant cells, build-up of a rigid plant wall *outside* the cell membrane is probably largely the function of the Golgi.

Some cells do not renew themselves by cell division but appear headed for senility and decrepitude. They will never make it! There is an elaborate "self destruct" mechanism in such cells. Tiny "suicide bags" (lysosomes) packed with powerful enzymes prowl the cytoplasm. Once again it is the membrane of the little bags that keeps the enzymes from harming healthy cells. When the lysosomes are triggered the enzymes pounce upon the elaborately complex cell machinery and take it apart, nut by nut and bolt by bolt. Spare parts are readily transported and admitted by growing cells where they may be reassembled into shiny new machines. It is better to contemplate the cell's way than to think of the heaps of discarded machinery, rusting and overgrown with weeds, one often sees in a factory yard.

Photosynthesis

Perhaps the most wonderful cell process of all is photosynthesis which takes place in green plant cells. These cells actually convert light energy into sugar and starch. The organelle that performs this amazing feat is the chloroplast. Little sacs called thylakoids are the basic components of the chloroplast. Thylakoids are shaped a little like lollipop. Imagine the round flat candy parts of several lollipops piled one on top of the other. This pile is similar to the way thylakoids are piled up to produce a granum. The green and yellow photosynthetic pigments of the thylakoids are organized into sub-units called quantasomes which act like energy traps. The energy of eight little bundles (photons) of light are required to energize the light traps to the point where enough energy can accumulate to split a molecule of water (H_2O). When this energy is used to pry the hydrogens away from oxygen, the oxygens pair and bubble off as a gas (O_2). This by-product of photosynthesis is of sufficient magnitude to completely replace the oxygen in the atmosphere once every 2000 years. The hydrogens and carbon dioxide embark upon a complex series of reactions that ultimately



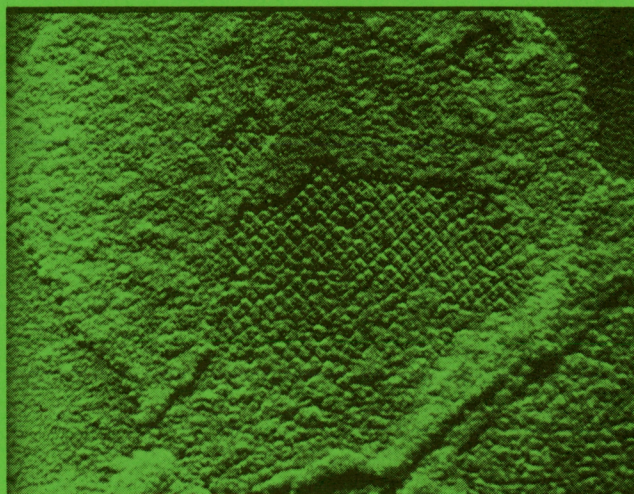
The chloroplast of a green plant cell. The thylakoids are seen on side view in the chloroplast. The dense grana are formed by the stacked "candy" part of the thylakoid "lollipops."

result in the production of sugar. The sugar, in a sense then, stores the light energy used to split water. Excess sugar is made by cell factories into starch. Starch-rich wheat cells are made into bread. When a person eats that bread, the starch is digested into sugar and the sugar enters the body cells as fuel. The mitochondrial power houses complete the breaking up of the sugar into CO₂ and hydrogens. In a series of leaps the hydrogens are restored to molecular oxygen to form water (H₂O). It is in these final steps (electron transport) that the energy provided by light to split water is released. Frugal ATP molecules hoard this energy and make it available for all reactions like protein synthesis that require energy.

Photosynthesis, then, can be thought of as a process of converting sunlight into bread. Organisms that can carry on photosynthesis are classed as producers. Those that are dependent on producers for their fuel are classed as consumers. Reduced to its essentials, our present ecological crisis is the result of the demand of consumers out-distancing what the producers can supply.

So far we have been stressing the similarities in cells of diverse organisms. Now, let us consider the diversity of cells within the same organism. A new-born baby has about 20 billion cells. Schleiden would perhaps think of the baby as an aggregation of 20 billion "fully individualized, independent, separate beings" and he would be correct, yet there is also a remarkable "division of labor" among the cells for the good of the organism. All cells in an individual are derived from a single cell—the zygote—by a process of cell division (mitosis) that results in precise replication of coded genetic information. Each of the twenty billion cells in a baby then must have the sum total of all the information required by the entire organism! What does a cell in your big toe do with a gene coding for blue eyes? The answer is obvious. As cells specialize, genes carrying unneeded information are simply shut down.

Consider for one moment the vast array of skills required of cells in a single individual. Some specialized cells produce hard supporting material like bone. Other cells have the capacity to contract on demand and relax



Surface view of a thylakoid. Part of the thylakoid membrane is torn to reveal a cluster of quantasomes (center) believed to be the ultimate photosynthetic units that convert sunlight into bread.

again. Large numbers of these cells may constitute a muscle which makes movement possible. Specialized cells may sense light, still others may sense heat, cold, odor, taste, or pressure. Highly specialized nerve cells convert the response of the sensing cell to stimuli into a steady train of electrical impulses that move along an intricate pathway of conducting cells to a precise center in the brain where a sense impression is made and the organism becomes "aware" of light, heat, cold, odor, taste, or pressure. The brain, constantly monitoring this steady stream of sensations, may decide to take action that may constitute a response of the whole organism to a sense stimulus. The response may involve hundreds of billions of cells each "doing its thing," true, but also contributing its share to the whole organism.

We are confronted with a fresh marvel. If the universality of the cell has made it possible for us to see unity and cohesion in diverse life forms, we must also recognize that the unity and cohesion of the individual organism depends upon the diversity of cell form and function within the individual.

The Psalmist's Wonderment

The psalmist in his day certainly had but a fragmentary knowledge of embryology, yet recognized the mystery and complexity of the process of how a cell becomes a baby. Here is how he expressed his wonderment: "Thou it was who didst fashion my inward parts; thou didst knit me together in my mother's womb. . . . Thou knowest me through and through: my body is no mystery to Thee, how I was secretly kneaded into shape and patterned in the depths of the earth. Thou didst see my limbs unformed in the womb, and in thy book they are all recorded; day by day they were fashioned, and not one of them was late in growing." Psalms 139:13-16 NEB.

Perhaps the most fitting conclusion for us, having contemplated the wonders of the cell and the organism of which it is a part, is to repeat with David the next two verses: "How deep I found thy thoughts, O God, how inexhaustible their themes! Can I count them? They outnumber the grains of sand; to finish the count, my years must equal thine." Psalms 139:17, 18 NEB.

Senior Music Major Wins Competition

Iphi Parfitt, a senior music major at Andrews from San Rafael, California, was winner in the March 25 biennial competition, sponsored by the St. Joseph (Mich.) Valley Chapter of the American Guild of Organists. Parfitt will compete in the regional contest to be held by the Guild at Evanston, Illinois, in June.

Parfitt, who is studying under Dr. C. Warren Becker, professor of music at Andrews, will receive his bachelor of music degree in June. He has been serving as organist for the First Congregational Church at Benton Harbor, Michigan.

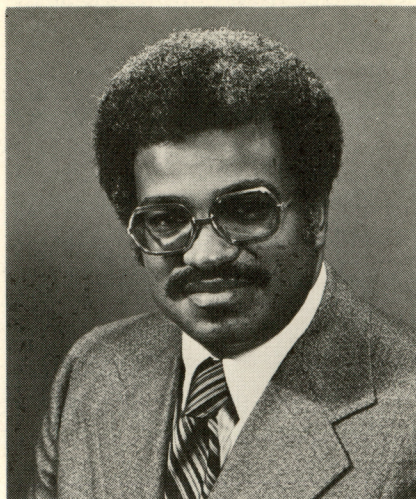
AU Food Services Does Varied Catering

Andrews University food service, under the direction of Clinton A. Wall, offers many special catering services both on and off campus. According to Wall, the department catered for 57 different occasions during the school year of 1971-72. Special catering services average approximately five per month; and at certain seasons of the year, there is some special occasion served by the food service department almost every day, sometimes twice a day.

Vespers Features Music of Second Advent

The Andrews University Chorale presented music of the second advent in a vespers program at Pioneer Memorial Church at AU on Sabbath, March 3. The 50-member chorale is under the direction of Ralph Coupland, instructor in music.

The vespers featured "Sleepers, Awake," a cantata by Bach. Soloists were Mrs. Bonnie Rowland, soprano; S. Clark Rowland, baritone; Richard Hill, tenor; LeRoy Peterson, violin; and Miss LuAnn Row, oboe. The chorale was accompanied by a chamber orchestra. Also presented on the program was a composition, "Behold, He Cometh," composed by Peter Mathews.



Elder Benjamin Reaves

Reaves to Teach At Seminary

Elder Benjamin Reaves has accepted the invitation of Andrews University to join the faculty of the SDA Theological Seminary as assistant professor in department of church and ministry. It is a full-time appointment beginning the first of August.

During the 1973-74 school year, however, Elder Reaves will be on leave of absence to study for the doctor of ministry degree in Chicago.

Reaves will teach classes in The Church and Urban Ministry, Black Preaching, The Church and the Black Experience, and other courses as needed.

Hammill Fights Youth Pollution

Andrews University totals its fight against environmental pollution at several hundred thousand dollars, says university president Richard Hammill. "But," he adds, "there is another type of pollution that requires a yet deeper involvement. It is the pollution of youth."

Dr. Hammill spoke in the keynote address to the council of Collegiate Adventists for Better Living (CABL) convened on AU campus, April 18 and 19.

The president called the youth pollution problem at Andrews "spasmodic." "Students who are polluting their bodies with tobacco, alcohol, or drugs are usually loners," he said. "But the use of these narcotics on a campus can become contagious. The pushers we get rid of immediately. The experimenters we try to work with."

Dr. Hammill listed the conditions that often lead people to become involved with drugs: curiosity, boredom, peer pressure, desire for popularity in the culture mistakenly thought of as 'youth,' tensions, and hostility.

Hammill also offered suggestions helpful in meeting or avoiding the problems.

"As we carry on our work of education," he said, "we ought to let young people know that everyone is subject to a certain amount of tension and disappointment. Some problems you can't escape, but as the

Bible says, you have to bear up under them.

"Leaders of youth may help by being more alert to the pressures young people are facing and be prepared to help them in their periods of tension.

"We must be more active in educating youth to the dangers of resorting to artificial releases from tension. This can be accomplished best through other young people—such as we have in CABL.

"We need to help youth understand that physical pollution is concomitant with defiling of morals. A young person who knows these things hurt his body and still uses them is harming his very soul, and there the real pollution takes place. He is rejecting God."

Facing up to the reality of campus life—whether a church-related campus or otherwise—Dr. Hammill concluded, "There will always be two kinds of young people on campus. Our task as a school is, not to weed out the youth who have problems, but try to help them."

Delegates from 12 SDA colleges attended the annual council of CABL. Meeting with them were the church's temperance department directors from across the US and Canada. CABL is a young organization initiated last year with the objective of interesting youth in working for other youth in a positive approach to better living.

Glasses for Haiti

by VICKIE WILLIAMS, freshman student

The "Glasses for Haiti" program was originated by Dr. Reynold F. Swanson, O.D. (BA '49) to fill the optical needs of the Haitian people.

It began in 1961 when Dr. Swanson went to Haiti for the first time, taking used eye glasses donated by interested individuals. He examined the patients and fitted them with the proper prescription. In a country with more illiteracy than India, more poverty than Pakistan, and where most homes would be substandard even in Asia, the people were thrilled that someone had seen to their needs.

A desire to contribute personally to humanity motivated Dr. Swanson to begin the "Glasses for Haiti" program. He had read about the work of medical volunteers in underdeveloped countries and saw optometry's potential in mission work.

The program grew as other optometrists, non-Adventist and Adventist physicians and dentists joined Dr. Swanson in ministering to the Haitians. Today groups of 15 to 30 people provide help for many thousands.

As described in *The Sign*, March 1971, by William Barada, professional writer, photographer, and explorer, the country of Haiti, located in the Carribean, has the distinction of being the poorest country in the Western Hemisphere. With an average of 400 people per square mile, there is no escape from the poor, the hungry, the disease-ridden. No plumbing, no running water, few toilet facilities, and unfit drinking water make malaria, dengue fever, and contagious infections a way of life. Only half of the babies born in Haiti live to be five years old.

A Haitian's average annual income is less than \$70 with unemployment rates exceeding 55 percent. Most Haitians eke out a living on farms no larger than the average American lawn, although seventy percent of the land is unsuitable for farming. Every inch of the mountainous country must be utilized, so many persons till the soil on steep mountain slopes. It is not an uncommon occurrence for someone to fall down the side of the mountain while working in his garden.



Dr. Reynold F. Swanson

Besides suffering under the oppression of poverty and disease, Haiti's people also suffer under the oppression of devil worship. According to Barada, ninety-eight percent of the people are so superstitious that voodoo worship is the unofficial national religion. Devil possession, casting spells, and animal sacrifices, are part of the voodoo ceremonies. "The Haitian government uses the fears and superstitions of the people to keep the people under subjection."

The response to "glasses for Haiti" program has been tremendous. At each sight clinic, hundreds of people crowd around seeking help. Lines more than a block long have formed as people wait to be fitted with glasses or wait for other medical treatment. Some of the patients come from villages 60 miles away, walking overnight on mountain trails to get to the clinic.

A direct result of Dr. Swanson's work is the Polyclinique Adventiste in Port-au-Prince, served by two Haitian doctors. It provides a place for visiting doctors who come to help with the medical needs and also for regular clinics.

This dispensary type clinic is greatly overtaxed, and presently money is being raised to equip a new 300-bed, ultramodern hospital facility.

Roy Joins AU Staff

Taking the place of Mrs. Genevieve Johns in the admissions office of Andrews University is Norman J. Roy. Roy comes to AU from Atlantic Union College where he has been director of admissions and records since 1971. Roy holds a MMus degree from Northwestern University and is currently studying towards a doctorate in music education at Boston University. He will serve at Andrews as associate director of admissions and records and also as associate professor of music.

Mrs. Johns who has served as assistant in admissions at Andrews since 1966 is leaving the university to marry Elder J. W. Bothe, president of the Canadian Union Conference.

COMMUNICATION from page 9

church leaders who must use the media in their work.

"The vast majority of what a person knows comes via the media," he comments, "so it is important to know how to evaluate the media also, and in turn to know what to bring to the media."

Dr. Giddings adds, "Communication is not only a tool with which to directly make a living, but is a tool needed in many professions. If the chief commodity of the future is going to be information, then it is important to train every person in some form of the tool of communication."

Welding and Auto Mechanics Training Programs Funded

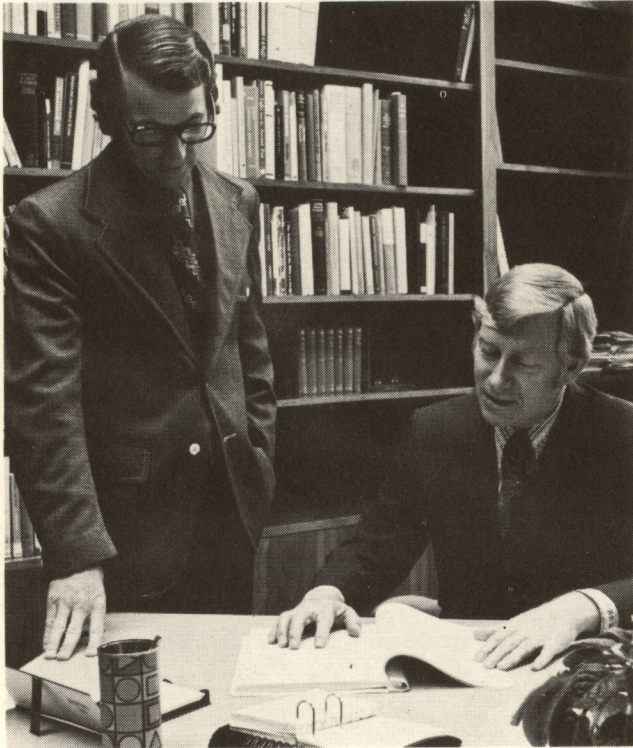
Two federally funded grants, totaling \$50,117, have been awarded Andrews University for training programs in auto mechanics and welding. The awards were announced by Kenneth Walsh, supervisor of Manpower Development and Training for the State of Michigan Department of Education, and Mel Andersen, director of occupational education at Andrews.

Andersen notes that in operating these programs for the Michigan Employment Security Commission (MESCC), AU provides an "in-kind match" of \$67,267 in non-reimbursed services.

CONSIDER

An AU Seminarian Looks at Glossolalia in Corinth

by GERALD KUNKEL



Seminary student Gerald Kunkel (standing) confers with James J. C. Cox,* Seminary professor of New Testament, on his 75-page manuscript concerning the gift of tongues.

If one had the ability and knowledge to enter a time machine which would carry him back to the year AD 57, what would he find in the city of Corinth? Well, any of us knows that such a machine does not exist, but with the knowledge gathered from archaeology and the scriptures we find Corinth representing to a large extent the port cities of our present world.

To best describe the city of Corinth, I would have to reflect on my recent experiences while attending a field school in evangelism in New York City. Though this city is not atypical of most large cities, what I saw there still shocks me to say the least. New York is full of every crime and vice conceivable. Prostitution is rampant while all manner of perversion is everywhere. Thievery and dishonesty are openly accepted while integrity is scorned. Violence has produced a sickening immunity to the point that it is overlooked by passers by. This was Corinth.

It would be hard to equate totally the two cities, but there is evidence that what is prevalent today was also in existence in Corinth. Corinth was a city of commerce with shipping providing most of the income. The Corinthians were an affluent people, well acquainted with

We invite our readers to consider with us some of the thoughts presented from time to time on our campus in spoken or written form and synthesized for your reading convenience.

the arts and leisure. Whereas the city had at one time been a purely Greek culture, it no longer was that after the Roman overthrow in BC 146.

After the fall of Greece, cities like Corinth found themselves going through great change, culturally as well as politically. Under the rule of Rome, Corinth became a cosmopolitan city where peoples of all walks of life now made their home, including Jews.

Corinth, because of its wealth and climate, became a tourist spot for much of the known world of Paul's day. With this great influx of people and money, the city grew in fame as the heart of the Greco-Roman empire.

This change also had an effect upon the religion of Greece. The Roman government wanted to have peace for all the people of its empire and so sought to provide a religion that would accommodate all peoples. This is why Egyptian deities were included in the worship of the land along with the Phrygian cults.

Of course the Jews, and the Christians, to a greater extent, would not maintain this "national" religion and thus found themselves at the receiving end of much ridicule and persecution. This is why, as well as for political reasons, the Jews were expelled from Rome and undoubtedly the reason for Aquilla and Priscilla being in Corinth.

The language of the Greek cities also was affected by this change. Greek, still being the predominant language, served the nations. But at the same time, many languages which had not been known in Greek cultures were now used extensively throughout the empire. This would especially be the case in Corinth where so many foreigners were coming and going.

Considering this brief history of Corinth, it is no wonder Paul wrote more to this small group of believers in that city than he did to any other church. The city, although once destroyed by the Roman overthrow of the Greek empire, was rebuilt to financial and cultural success. But along with a city of this size comes sin in proportionate amount. So Paul had to deal with an infant church in an immoral, affluent society.

The first letter to the Corinthians is, of course, one of fatherly admonishment on the part of Paul. One can see the concern of Paul for a church which had all the odds against it. Especially in the paganistic setting of Corinth, Paul was trying to draw a line of distinction between the behavior and attitudes of the pagans and those of the Christians.

Looking briefly at the problems which Paul was attempting to correct, one finds these chapters stand out: 1, dissention and quarreling among believers; 2, unspiritual man not receiving nor understanding the gifts of the Spirit; 3, jealousy and strife among the believers;

5, immorality among certain ones of the church; 6, issues of court and sins of the flesh; 7, problems dealing with marriage or non-marriage and divorce; 8, foods offered to idols; 10, Old Testament problems reviewed in light of present conditions in the church in Corinth; 11, conduct in public worship; 12, the gifts of the Spirit; 14, instruction in the gift of speaking in tongues; 15, state of the dead and the resurrection; 16, instructions for collecting money for the poor, and becoming subject to the authority of certain leaders.

There is no question about it, Corinth was a church with some real problems. But one thing must be noticed at the outset: the church as a whole was not involved in all of these problems. Paul was directing his messages of rebuke to those directly involved in the particular instance. Otherwise, how could the apostle write that the church there was "not lacking any spiritual gift" (1:7)? Unless this is understood, it would almost seem as if Paul were contradicting himself in 3:1 where he addresses jealous members not "as spiritual men, but as men of the flesh."

A Genuine Gift

So when the reader comes to the fourteenth chapter of 1st Corinthians, he must realize that Paul here was dealing with a genuine gift of the Spirit. Furthermore, not all the members were involved in the experience of tongues speaking. Hence the statement, "Do all speak with tongues?" (12:20). Thus Paul writes this chapter as a pastoral response to a local situation. In doing this, he is determined to draw the Christian to an experience higher than that of the local culture.

To begin the chapter, Paul writes that the believers should "earnestly desire the spiritual gifts." . . . It is here that a great deal of confusion is caused by the misunderstanding of just what a spiritual gift is and what it is used for.

Looking at the book of John, often called the book of the Spirit (pneuma), we find just what the Holy Spirit's work was then and is today. Note the following texts and their application to the Spirit: John 14:26, He is a **teacher**; 15:26, a **revealer of truth** and a **confirmer of what Christ taught**; 16:8, He is the **One who convinces the world of judgment**; 16:13, a **bearer of truth**.

The Holy Spirit came to the early church in order to minister to her needs. If the situation called for the gift of tongues, then the Spirit provided the gift; if the occasion called for the gift of apostleship, then the Spirit provided the apostle. Thus the work of the Holy Spirit Himself and the gifts which He gave to men were for the same purpose, that is, "for the equipping of the saints for the work of service, to the building up of the body of Christ," Ephesians 4:12 (New American Standard Bible).

Spiritual gifts, then, are the result of receiving the "gift" of the Holy Spirit (Acts 2:4). Therefore, one must conclude that to use the gifts at one's own discretion, by either manipulation or misuse of any of the gifts, would surely be grounds for losing not only the gift but also the "gift" of the Holy Spirit Himself who is the giver of the gifts.

So then what we have in chapter fourteen is not a

misuse of the gift of tongues as some have believed, but a misunderstanding as to its greatest use.

Certain key words of the chapter seem to point toward this interpretation. Note the following:

(1) **Mysteries**—this term was used early by the pagans in the mystery religions. The term got its name by the secrecy of certain societies which by oath would allow no one to talk about what was done inside their group. Once the person was "initiated" as a member, he then was informed of those secrets.

Paul uses the term to show that something is "revealed" to those initiated into Christianity. (See 1 Corinthians 15:51 for an example of Pauline usage of "mystery.")

So when the term is used in connection with tongues-speaking, it is not that Paul sees it as a strange sound, but merely as a revelation given which is a mystery to those outside of Christianity.

(2) **Prophecy**—this term in the original language literally means to "speak forth" or "make known publicly." To hold the office of a prophet and to speak prophecy do not necessarily have to be the same thing. The prophet usually tells of a future event revealed to him by God, while prophecy of itself can simply mean a proclamation about God.

It is this latter usage that Paul had in mind when he tells the Corinthian believers that they all should prophesy. In other words, every believer must proclaim God to the unsaved.

(3) **Tongues**—this term is used over 40 times in the New Testament. Thirteen times it refers to the tongue as an organ of the body, not necessarily referring to its use in speech. The term then literally has two meanings in the New Testament.

In extra biblical Greek literature, the term tongue (*glossa*) has a very strict usage, that is, "tongue," the faculty of speech—language. As in the case of Aristotle, the term is given poetic usage as the tongue in the mouthpiece of a wind instrument, or the mouthpiece; he also uses it to mean a strap or tongue of a shoe—because of its shape.

But on the other hand, words used to denote ecstatic speech such as gibberish do include the term "prophecy" but not the term *glossa* or tongue.

It is evident that ecstatic speech is not meant by the term used for tongues, but has had to be supplied by the commentaries on the grounds of the unusual circumstance found within Corinth.

(4) **Foreigner**—the term *barbaros* is usually translated foreigner. But the term means more than just a foreigner. The Greeks applied this term to anyone who did not speak Greek but did speak a language which was unknown to them.

Without a doubt, Paul's usage of the word was in keeping with the understanding of the day. Apparently there were numerous non-Greek-speaking barbarians present in the city and even some among the church members. Thus when Paul states, "But if I do not know the meaning of the language" (v. 11), he is referring to the language of Greek. The "many different languages in the world" (v. 10) then would be non-Greek languages.

That is to say, the issue here was not that of a misuse of the gift of tongues, but of a communications problem.

Apparently those speaking in a foreign tongue in church were failing to give an interpretation to those Greeks who didn't know the foreign language. Consequently, the whole church was not being edified.

(5) **Interpretation**—this term in its varied forms can mean any of the following: explain, expound, translate, express, or stress.

Paul apparently was instructing the tongues-speakers to "interpret" or "explain" what they had spoken in order to bring a revelation for the benefit of the entire body of believers.

In all, it appears that Paul's burden was that the entire church benefit from the message (or mystery) spoken and not just the foreigners. Thus the apostle's argument in verses 6-12 points out that the gift of tongues is useless unless it benefits all the hearers with some revelation. And in this case, the gift of tongues was to be accompanied by the gift of interpretation.

Looking at the overall setting of Corinth and the issues that this young church faced, one can see how Paul sought to keep this small body of believers free from pagan influence. This would especially appear to be the case if in the pagan religions in Corinth there were ecstatic speech and uncontrolled emotions. There are, in fact, strong clues that lead to the belief that there were such things present in the city of Corinth at the time of this letter.

Inevitably, one must ask himself the question, "Would God allow a gift to become like that of the phenomenon in the pagan religions which was tied so closely with licentiousness?" The answer to this would have to be, No, when one reviews the work of the Holy Spirit, especially in cases like that of Ananias and Sapphira.

Without special attention, instruction, and guidance given to these redeemed pagans, it would have been quite easy to find the whole church caught up in a fanaticism which would have led to the death of the church. If tongues-speaking was not understood by those who observed it (either in the church or out of the church), it could have become an object of mimic and ridicule.

Without the proper order and translation given in this connection, outsiders could easily associate this experience with that of the pagan culture. Paul undoubtedly saw the potential danger involved and so laid down a plan (the "law of God," 14:37) to meet the particular need.

Speaking in tongues is not limited in scope (as some feel) merely to being a sign for the unbeliever. The phenomenon, not unlike other gifts of the Spirit, had definite purpose and function. This is quite likely the reason why Paul used such expressions *οικοδομην* (edification by teaching), *γνωσει* (knowledge), *διδαχη* (teaching), *ιδιωτης* (uninstructed) in connection with the phenomenon of tongues.

Where Paul saw the breakdown of communication as a result of lack of interpretation, he saw that the gift no longer was fulfilling its ultimate function as a gift, which was one of instruction as well as a sign.

It is important to notice that Paul does not once forbid speaking in tongues. In fact, he quite openly warns against forbidding tongues-speaking. To do this, the apostle must have recognized that the gift was genuine

and that God had a purpose for its being in the Corinthian church.

Paul is concerned that the Corinthian church become mature in its thinking (v. 20). That is to say, while it would be easy to disregard his counsel, the more mature thing would be to accept his guidance in these measures.

Where Greeks were known for their rational reasoning, Paul wanted to provide heavenly wisdom so that no mistake would be made in connection with the Spiritual Gifts.

Practical Principles

Though speaking in tongues is the focus of Paul's attention, the principles that he lays down are practical advice for Christians in every aspect of life. These principles are as relevant to 20th century man as they were to the Corinthians.

First, Paul stresses the fact that whatever is done in connection with one's witness should not be for an exclusive few, but for the whole. This can be applied in principle to both the church-related situations and the world at large. Is what we are doing in evangelism missing some class of people? May it be because of lack of initiative on the Christian's part that many persons are not receiving what he thinks he is giving? Or is what we are giving really meeting the needs of those who hear?

Persons speaking in tongues in the Corinthian church were definitely not giving all of the witness that was intended by the gift of tongues. Paul wanted to change the situation. So it must be with the modern Christian. His witness is not to be exclusive—it is to be for the entire world on the basis of relevancy in meeting the needs of the every-day sinner.

Second, the apostle makes it clear that the church is made up of more than one type of people. Just as tongues is not the only gift in the church, neither does any one individual or group have a monopoly on all of the gifts. Hence the statement, "What! Did the word of God originate with you, or are you the only ones it has reached?" (14:36).

Third, Paul was patient in dealing with an awkward situation. Even though the phenomenon he was dealing with was genuine, those experiencing the gift were not experiencing its ultimate fruitfulness—in that others were not being enlightened. Can we as Christians be as tolerant and understanding as was Paul? Does the fact that things may not be going as well as we think they should give us as Christians license to cast judgment upon others?

Therefore, in dealing with modern-day problems in the church, let the Christian be the uniter rather than the divider. In this day when there are so many problems confronting the church, let the Christian pray for heavenly wisdom rather than exercise earthly defiance so that he like Paul may say, "Let all things be done for edification."

* James C. Cox passed his oral exam at Harvard Divinity School for a PhD on May 7, 1973.



William Young

The appointment of William Young as station manager and Joseph Priest as head announcer at WAUS, the Andrews University radio station, has been announced by Dr. Richard Hammill, university president and vice chairman of the Andrews Broadcasting Corporation. The appointments were effective March 25.

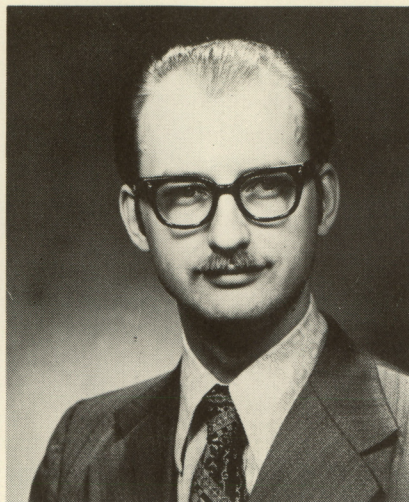
Young, who joined the WAUS staff in September as director of development, replaces Carsten Thomsen, acting station manager since February 1972.

Thomsen is leaving the station to accept a position as a technical writer for Bruel & Kajaer in Naerum, Denmark, about 10 miles north of Copenhagen. The company is a leading manufacturer known internationally for its sound and vibration measurement equipment.

Thomsen was instrumental in the technical planning and construction of WAUS, and has served there as chief engineer, operations manager, and acting station manager.

The new manager, William Young, received his bachelor of music degree from Andrews University and his master of music degree from Michigan State University. He has taught for 11 years on both the secondary and college levels.

Joseph Priest has served as an announcer for WAUS since the station's inception. He was previously an announcer for three years at WNIL, AM and FM, in Niles, Mich-



Joseph Priest

igan, and for two years at WSMC-FM in Collegedale, Tennessee.

A graduate of Southern Missionary College, Collegedale, Tennessee, Priest earned his master of arts degree in English at AU.

• WAUS hosted an Underwriter's Appreciation Banquet, April 10. The event was scheduled to honor local area businessmen who are contributing to the success of WAUS by underwriting the cost of many of the programs heard over the station. The buffet dinner was prepared by the university food service. Secretary for Andrews Broadcasting Corporation, V. E. Garber, presented in a brief talk the goals and philosophies of both Andrews University and WAUS, emphasizing the importance of the business community in achieving desired objectives. Guests were entertained with musical selections by the Taylor String Quartet and escorted on tours of the broadcast studios and facilities of WAUS. Of particular interest during the tour was an exhibit in the entrance hallway which displayed material on the history of WEMC in the 1920's and also featured photographs and items of interest on the development of WAUS.

• Violet James has joined the WAUS staff as part-time music assistant. She is working with music assistant Linda Wildman in cataloging about 5,000 albums of music being added to the files of the station.

• Herman Doering, sophomore chemistry major, who has been working with WAUS as a part-time student announcer for some time, has been added to the staff on a full-time basis and will be working with the station in this capacity through the coming summer.

Physics Department Receives Plutonium

Radioactive plutonium, valued at \$3,200, has been donated to the physics department at Andrews University by the Atomic Energy Commission, according to Bruce Lee, associate professor of physics at AU.

The US government had previously made plutonium available on a loan basis to schools and other institutions, but recently decided to recall the material. The government then donated the plutonium to institutions qualifying for grants.

The AU physics department has been using plutonium in both introductory and advanced courses since 1964. The 80 grams of plutonium are alloyed with beryllium in slug form. The slug is housed in a stainless steel cylinder one inch in diameter and five inches long. The cylinder is kept and used experimentally in a neutron howitzer, a large tank of water.

Plutonium, a source of neutrons, is used in studies of neutron behavior. It is also used to produce short-lived radioactive materials.

Augsburger Reads Paper

Dr. Daniel Augsburger, professor of church history and religion at AU, read a scholarly paper entitled "Bucer and the Mosaic Law" at the 8th Conference on Medieval Studies, held at Western Michigan University, April 30 to May 2. Sponsored by the Medieval Institute at WMU, the national conference was attended by several hundred persons and was considered one of the most significant annual meetings on medieval studies.

ANDREWS SCHOLARS 1972-1973

SENIORS:

Anderson, Sharon—Psychology
 Ashenhurst, Elfriede Oster—
 Behavioral Sci.
 Ashenhurst, Robert—Behavioral Sci.
 Barnhurst, Darlene Hart—Nursing
 Best, Kathy—Elementary Ed
 Bohr, Steven—Theology
 Bouchard, Robert—History/
 English/Math
 Brenneise, Harvey—History
 Brown, Joel Anthony—Math
 Cameron, Bruce—Business
 Carr, Deborah—Elementary Ed
 Carruthers, Jean Margaret—Nursing
 Castetter, David—Mathematics
 Castetter, Susan—Elementary Ed/
 English
 Castillo, Sonia—Art
 Caviness, Dorothy—German
 Chilson, Beverly Holstein—Nursing
 Chilson, Don—Biology
 Clark, Debra—Elementary Ed
 Faber, Robert—Mass Media
 Finnell, Kenneth—Math
 Friedrich, Kathy—Music
 Haynal, Peter—Bus. Adm.
 Henderson, Donna—Home Ec Ed.
 Hildreth, Peggy—Math
 Holford, Doug—Chemistry
 Hubbard, Ken—Pre-Med
 Hutchinson, Alice—Bus. Adm.
 Irish, Gary—Biology
 Johnston, Judd—Psychology
 Jordan, Candace—French
 Kidd, Gary—Math
 La Bianca, Tom—Behavioral Sci.
 Lee, Bruce Jr.—Chemistry
 McArthur, Benjamin—History
 Mauro, Steve—English
 Moore, Gary—Chemistry
 Mortenson, Jerry—History
 Nicolaus, Victoria—Elementary Ed
 Osterman, Charlotte—Behavioral Sci.
 Page, Jerry—Theology
 Payne, Albert E. Jr.—Chemistry
 Pearson, Stephen—Art
 Peasley, Summer—English
 Peterson, Arthur—Music
 Rasmussen, Kenneth—Theology/
 Business
 Ritland, Stan—Biology
 Rowe, Dave—English
 Sanocki, John—Mathematics
 Schmidt, Hernan—Music
 Simpson, Christine—Music Ed
 Skilton, Gary—Business Adm.
 Staples, Dianne—English/German
 Stepp, Dan—Mathematics

Waller, Adele—English
 Warren, Judith—Home Economics
 White, Craig—Religion
 Wolfer, Geneth—Muisic

JUNIORS:

Anderson, Craig—Mathematics
 Andrews, Thomas—Biology/
 Psychology
 Atwood, Carol—Accounting
 Barnes, Dale—Chemistry
 Baugher, James—Engineering
 Baum, Elaine—German
 Bender, Robert Lynn—Engineering
 Blom, LaDonna—Religion
 Boelter, Wendy—Dietetics
 Boyer, DeWayne—Mathematics
 Brennan, Margaret—Elementary Ed/
 English
 Burt, Geraldine—Food & Nutrition
 Christoffel, Joseph—Business
 Des Jardins, John Arnold—Business
 Donesky, Dwight—Psychology
 Drake, Julia—Chemistry
 Dudley, Franklyn—Bus. Adm.
 Dunson, Steven—Behavioral Sci.
 Eliuk, Florence—Med. Tech.
 Farlow, Martha—French/Spanish
 Fisk, Carol—Biology
 Fleming, Wayne—Behavioral Sci.
 Goh, Jessica Mui—Music Ed.
 Hallam, Kenneth—English
 Hamstra, Don—Business
 Harris, Stanley—Music
 Hartsock, Debbie—Physical Ed/
 Music
 Hay, Douglas—Biology
 Hirsch, Karen—Undecided
 Jackson, Mary Jane—Sec. Sci.
 Jacobson, Dale—History
 Jennings, Michelle—Elementary Ed
 Jolliffe, Glenda—Home Ec
 Kalvoda, Donald—Biology
 Kempton, John—Undecided
 Lantry, Kimber—Business/
 Theology
 Lippi, Paul—Theology
 Lohff, Judy—Nursing
 McClellan, Pam—English
 McGhee, Robert Durand Jr.—
 Biology
 Mang, Karen—Mass Media
 Mera, Szaboles (Steve)—P.E.
 Mittleider, Douglas—Undecided
 Mullin, Tim—Chemistry
 Nay, John—History
 Norris, Judy—English/Spanish
 Peterson, F. Rosemary—Elem. Ed/
 English

Presny, Susan—Nursing
 Rago, Matt—Political Sci./Bus.
 Riley, James—Chemistry
 Rose, Dixie Lee—Biology
 Ross, Barbara Jean—Math
 Schaeffer, Roy—Electrical Engr.
 Seitz, Helen—Elem. Ed/Arts & Cr.
 Sharp, Jenene—Nutrition
 Sheline, Sue—Nursing
 Shepherd, Sandra—Nursing
 Singell, Frances—English
 Smith, Kimber—History
 Sterner, Raymond—Physics
 Stevenson, Richard—P.E.
 Tozer, Gail—Speech & Hearing
 Therapy
 Trippel, Susan—English
 Trott, David—Biology
 Velasquez, Norma—Spanish/Art
 Walden, Phillip (at Collonges)
 Wiebe, Carolyn—Psychology
 Williams, Kathleen—Elementary Ed

SOPHOMORES:

Anderson, Kent—Pre-Dental
 Baker, Suzanne—Undecided
 Barker, Bob—Biology
 Barker, Lucille (at Collonges)
 Beach, Ronald—Engineering
 Bedell, Debbie Jo—Biology
 Bell, Rose—Nursing
 Carlson, Brenda—Undecided
 Casey, Deborah—Behavioral Sci.
 Christiansen, Fred (at Collonges)
 Cinquemani, Polly—Pre-Med
 Copsy, Terry—Pre-Med
 Cormier, Michele—Nursing
 Cowley, Marcia—Elementary Ed/
 Arts and Cr.
 Denslow, Sandra—Spanish
 Dizon, Manuel—Pre-Med
 Doering, Herman—Undecided
 Edevbie, Onowarie—Chemistry/
 Biology
 Falconbridge, Vaida—Music
 Feigner, Deborah (at Bogenhofen)
 Gennick, Rosie—Med. Tech.
 Gibbons, June—Dietetics
 Gillen, Rolene—Nursing
 Grant, Diann—Behavioral Sci.
 Guth, Ron—Engineering
 Habenicht, Linda—Physical Therapy
 Hainault, Cindy—P.E.
 Halvorsen, Bea—Secretarial Sci.
 Harris, Deborah Jean—Undecided
 Hartson, Karen—Elementary Ed/
 English
 Hechanova, Demetrio—Pre-Med
 Herwick, Sally—Nursing

Hewitt, Marjorie—Nursing
 Howard, Yvonne—Med. Tech.
 Jeffrey, Debbie—Math/Pre-Med
 Kieler, Karren—Pre-Med
 Kinzer, Patricia—Biology
 Kubo, Charlene (at Collonges)
 Kubrock, Fred—Engineering
 Kurtz, Donavon (at Newbold)
 Kurzynske, Jon—Undecided
 Lee, Steven—Undecided
 Lewis, Janice—Nursing
 Lui, Jocelyn—Nursing
 Marley, Marcia—Chemistry
 Menhardt, Buz—English
 Mercado, Carmelo—Biology
 Mills, Ruth—Medical Sec.
 Mucha, Julie—Religion
 Myers, Judy—English/History
 Nelson, Naomi—Religion
 Noble, Nancy—Undecided
 Oldham, Anetta—Dietetics
 Pakabunto, Nouvarat—Business
 Reiber, Nicholas—Engineering
 Reyes, Octavio—Religion/History
 Richards, Beverly—Nursing
 Richardson, Marit—Physical Therapy
 Ruiz, Reinaldo—Biology
 Shafer, Thomas Lee—Biology
 Simpson, Anna Maria—Biology
 Strefling, Amy—Social Work
 Taylor, Marvin—Biology
 Tsui, Nelson—Psychology
 Ward, Jean—Behavioral Sci.
 Warren, Karen Joy—Nursing
 Weaver, Laura—Undecided
 Weis, Lorne—Business
 Willis, RosAnne—English

FRESHMEN:

Albers, Faith—Physical Therapy
 Alexander, David—Pre-Med
 Andersen, Connie—Pre-Med
 Anderson, James—Biology
 Andrus, Kathryn—Pre-Med
 Baker, Sally—Nursing
 Bowman, Myra, Undecided
 Brenneise, Carmen—History
 Burgess, Terren—Chemistry
 Carter, Denise—Pre-Med
 Colburn, Kenneth—Music
 Collar, David—Theology
 Collins, Marianne—Behavioral Sci.
 Dizon, Lorna—Nursing
 Drumm, Roberta—Undecided
 DuLong, Kathy—Undecided
 Fisher, Charlene—Dietetics
 Gal, Becky—Biology
 Gorman, William—Undecided
 Habenicht, Laurence—Biology/
 Religion
 Hall, Frances—Pre-Med
 Hands, Lester—Music

Interdisciplinary Honors Seminar Presentations

by SENIOR ANDREWS SCHOLARS, Spring Quarter 1973

Stephen Bohr	What is the Relevance of the Destruction of Jerusalem in BC 586 and AD 70 to the Second Coming of Christ?
Dan Stepp	Computer Assistance in Chemistry
Gary Skilton	An Examination into Laws and Accounting Principles
Bruce Cameron	No Fault Insurance
Bob Ashenhurst	Industry's Social Role in the Community
Alice Hutchinson	Andrews' Registration: A Comparative Study
Kathy Friedrich	Lecture-Piano Recital Aspects of the Keyboard Techniques and Orchestration in the Concertos of Haydn and Grieg
Ben McArthur	William A. Williams: A New Perspective on the American Past
Art Peterson	Ravel's "Valses Nobles et Sentimentales"
Karen Mang	Female Susceptibility to Persuasive Communications
Bob Faber	Portrait of an Audience
Adele Waller	From Suffering to Violence in Nathaniel West's <i>Miss Lonelyhearts</i>
Geneth Wolfer	20th Century Techniques in Music
Doug Holford	Absorbance of Pesticides on Silica Gel: UV Spectroscopy
Stan Ritland	To be Announced
Jerry Mortenson	Berrien County and the Civil War Draft
Harvey Brenneise	Musical Life in N.Y. City in 1890-1914 as Related to the Metropolitan Opera
Bob Bouchard	The Effects of Politics on Late 18th Century English Culture
Summer Peasley	Robert Frost's Dramatic Dialogues

Hanscom, Alan—Undecided
 Harrell, Melody—Pre-Med
 Hechanova, Wilmer—Pre-Med
 Hedger, Darlene—Dental Hygiene
 Hedrick, James—Undecided
 Heil, Cynthia—Botany
 Heischober, Bruce—Biology
 Henderson, Carol—Biology
 Hildebrand, Steven—Pre-Med
 Hoyt, Elvira—Business
 Hyde, Jeanette—Dietetics
 Hyde, Vickie—Piano
 Jackson, Martin—German
 Jones, Meredith—French
 Joslin, Jeanette—Sociology
 Kalvoda, Sandra—Undecided
 Keiser, Ken—Pre-Med
 Kellawan, Karl K.—Biology
 Kopitzke, Steve—Undecided
 Kuryla, Debbie—Undecided
 Lindemann, Robert—Biology
 Liske, Coralie—Undecided
 McCarthy, Gail—Undecided
 Messenger, Gerald—Biophysics
 Meyer, Sue—Pre-Med
 Mullin, Thomas—Chemistry/Math
 Newell, Carol Ann—Elementary Ed/
 P.E.

Okimi, Peter—Biology
 Pahn, May Kadri—Nursing
 Petras, Cindy Susan—Biology/
 Pre-Med
 Prelog, Debra—Music
 Ratzlaff, John—Chemistry
 Reasner, Charles A.—Pre-Med
 Reid, Catherine—Music
 Rickerman, Pat—Engineering
 Ritland, John—Undecided
 Roberts, Teresa—Undecided
 Roy, Brenda—Nursing
 Ruskjer, Tim—Theology
 Sanders, Carol—Behavioral Sci.
 Schuck, Teresa—Undecided
 Show, Kay—Elementary Ed.
 Shull, Teresa—Undecided
 Sipple, James C.—Pre-Dental
 Smith, Leonard—Music
 Snyder, Karen—Home Ec/Math
 Sorensen, Lief—Physics
 Stotz, Kathy—Undecided
 Topps, Myla—Nursing
 Vorce, Daryl—Pre-Med
 Webster, Sharon—Pre-Med
 Wheeler, Bonny—Undecided
 Williams, Victoria—Undecided
 Wright, Kenneth—Pre-Med

Heshbon Pottery Report by Sauer Added to AU Monograph Series

A preliminary report on the pottery from the excavations at *Tell Heshbân* (Volume VII of the Andrews University Monographs) has recently been written by James A. Sauer, annual professor next year at the American Center for Oriental Research.

Appraising the publication, George Ernest Wright, president of the American Schools of Oriental Research, says: "This is the first publication of well-stratified, tightly controlled strata, dealing with archaeologists' greatest dark age—the post New Testament era. For pottery sequences from Roman to the Crusader periods, with this publication Heshbon becomes the type-site for all archaeologists."

The Heshbon monograph by Sauer is the technical preliminary report on the pottery from the 1971 season of excavation at *Tell Heshbân*, Jordan, and should be of particular interest to students and scholars of the Roman, Byzantine, and Islamic Periods of Syro-Palestinian history and archaeology.

Part I (pp. 1-7) outlines a comprehensive and flexible system of chronological terminology for the "Late Periods" (Persian-Modern) of Palestinian archaeology. This terminology, which is based on both historical and archaeological evidence, is utilized throughout Part II.

Part II (pp. 8-74) presents seven major ceramic horizons from *Tell Heshbân* (Late Iron II, i.e., 7th-6th century, Late Hellenistic, Early Roman, Late Roman, Byzantine, Umayyad, Ayyubid/Mamluk), the last six of which are illustrated among the 164 sherd drawings of Figures 1-4. In the text, each of these horizons is treated on three levels: (1) *Stratigraphic context*: For each horizon, the general stratification of the site is described first, followed by the particular stratification of the Loci which produced the published sherds. The relevant Loci were selected for publication on the basis of their stratigraphic clarity, ceramic homogeneity, and associated dating evidence. (2) *Typological characteris-*

tics and published parallels: The typological definition of each horizon is established through the description of the published sherds, but suggestions of unilinear typographical development are in general avoided. The parallels which are cited establish relationships with other published sites from Trans-Jordan, the West Bank, etc. (3) *Dating evidence*: The published sherds from each horizon are dated as closely as possible on the basis of datable artifacts (e.g., the ca. 160 legible coins, the several ostraca, a stamped jar handle) and historical correlations (e.g., the ca. A.D. 1260 and 1401 Mongol invasions). Coin-controlled parallels from other sites also are isolated and cited as evidence for dating several of the *Tell Heshbân* horizons. Part II concludes with a selected archaeological bibliography of ca. 200 entries.

Previous Publications In the AU Monograph Series

A. F. Johns, *A Short Grammar of Biblical Aramaic*. Second revised edition. 1972. (AUM, I) xii, 108 pp.

*R. S. Boraas and S. H. Horn, *Heshbon 1968. The First Campaign at Tell Heshbân*. 1969. (AUM, II) viii, 143 pp., 13 figures, and 16 plates.

H. K. LaRondelle, *Perfection and Perfectionism. A Dogmatic-Ethical Study of Biblical Perfection and Phenomenal Perfectionism*. 1971. (AUM, III), vii, 348 pp.

S. Kubo, *A Reader's Greek-English Lexicon of the New Testament*. 1971. (AUM, IV), ix, 284 pp. (Kubo issued a new edition in 1972. See page 18 of this edition of FOCUS.)

G. F. Hasel, *The Remnant. The History and Theology of the Remnant Idea from Genesis to Isaiah*. 1972. (AUM, V), ix, 460 pp.

*R. S. Boraas and S. H. Horn, *Heshbon 1971. The Second Campaign at Tell Heshbân*. 1973. (AUM, VI), viii, 144 pp., 12 figures, and 16 plates.

*The Heshbon excavation reports are identical to those appearing in the respective issues of *Andrews University Seminary Studies* (AUSS).

Seminary Communion

OPEN LETTER TO THE SEMINARY FACULTY:

(Published in the
Student Movement)

Friday evening Communion Service was the highlight of my Seminary experience, all two and a half years. Perhaps it is because I tend to be sentimental. Perhaps because this is my last quarter at Andrews University. Perhaps it was because this was the end of my last Seminary week of prayer. Perhaps it was simply my great need to be washed clean, made new in the Lord Jesus. Perhaps it was even all of these and more.

Perhaps it was because I received a new insight into the life of Peter, the Apostle, the one to whom we are devoting an entire lesson study this quarter.

It was Peter who said, "You shall never wash my feet." But Jesus replied, "If I do not wash you, you have no part with me." Simon Peter responded, "Lord, not my feet only but also my hands and my head."

Last Friday that experience was real. The entire faculty of the Seminary ministered to the students and to each other. They served. They witnessed. They shared. They prayed.

The Dean of the Seminary spoke the Word. It came alive. Flanked by Drs. Horn and Specht, chairmen of the Old and New Testament Departments who broke the bread and passed the cup, the Dean took the position of the DEAN of Deans. "This do in remembrance of Me."

With Deacons like Raoul Dederen, Walter Douglas, C. Mervyn Maxwell, and Wilber Alexander, the service took on that meaningful experience that Peter must have felt. They dipped the water and cleaned the basins. They washed our feet and offered prayers in our behalf. They served the bread and wine. One could not help remembering the One who said, "the Son of man came not to be ministered unto, but to minister."

Perhaps it was only a glimpse of the brotherhood Christ Jesus wants among men. Perhaps, too, it is a glimpse of that future Communion Service when Christ again breaks the bread and offers the wine. When

(Continued on page 30)

Variety of Projects Undertaken By Seminary on Earth Day

Seminary students at Andrews University were involved in a number of projects throughout the area Thursday, April 19, in observance of Earth Day.

Faculty, as well as 110 of the 240 students enrolled in the Seventh-day Adventist Theological Seminary, participated in what was termed Operation Concern Day. Other students worked on personal projects, such as putting in a lawn for the public park system in South Bend.

Some students, who were not able to take an active part in the day's projects, worked at their regular jobs and donated a morning's wage to the Seminary's Fellowship Fund, which aids non-sponsored seminary students who need financial help.

Operation Concern Day was coordinated by Wes Amundsen, an officer of the Student Forum at the Seminary. He noted that he believed that "theological classes are imperative for effective ministerial training, but we must not forget to meet the immediate needs and concerns of people on a personal level. This is what we attempted to do in this special event. This indeed is practical theology."

Five Seminary students did paneling and electrical work at the Attention Center, Benton Harbor. They included three men who are working their way through school doing construction, electrical, or wallpapering work.

Painting and general maintenance was done by 20 students and faculty at the Clear Lake Youth Ranch in Buchanan. The ranch, operated by the Fulkerson Park Baptist Church in Niles, offers programs for underprivileged children from Benton Harbor each summer.

Students were involved in laying brick, painting, and carpentry work at the Eau Claire Seventh-day Adventist Church. The 90 church members there are currently in the process of building their own church, which will have a seating capacity of 200.

Forty students helped elderly per-



Russell L. Staples, assistant professor of mission at the Seminary, and graduate student Al Long help Mrs. W. H. Wohlers with garden preparations. This was one of many and varied projects of concern carried on by AU students and teachers on Earth Day in April.

sons in St. Joseph, Benton Harbor, Berrien Springs, and Stevensville, by taking down storm windows, washing windows and replacing broken glass, and doing lawn work. The county social services department, under the direction of Joan Murray, had funds for the necessary materials, but needed the manpower to do the work.

In Berrien Springs, students were also involved in painting an entire five-room apartment, and in roofing a home. At Stevensville, workers cleaned up debris at Grand Mere, and did both interior and exterior work, including building a porch.



COMMUNION (from page 29)

Moses and Peter, perhaps, as the Old and the New, will serve as Elders—and who will be the Deacons? Adam? Abraham? Elijah? Enoch? James? John? Isaiah? Jeremiah? David? Paul?

It was indeed a meaningful experience, at least to me. And, on behalf of the student body of the Seminary, I want to express my appreciation to Dean W.G.C. Murdoch and the Seminary faculty for making it possible.

John G. Beach, president
Seminary Student Forum

Who? What? Where? When? Among Our Alumni

Trickett Yields Gavel to Costerisan



Outgoing president of AUAU Wilson Trickett (standing right) yields the gavel of authority to the association's new president, Floyd L. Costerisan. New vice president is Mrs. Elsie Landon Buck, seated at right. Other persons in foreground are, from left, Dr. Natelkka Burrell, Dr. Viggo Norskov Olsen, AU president Richard Hammill, and Kenneth Wright.



Dr. Horace J. Shaw, executive secretary of the AUAU, flashes his big alumni smile at Homecoming time, April 27-29. To quote one of his many admirers: "I had the unique privilege of sitting at the feet of this unusual man while attending AU. He and his wife are both outstanding educators. More than this, they are compassionate human beings. I have always considered it one of my finest experiences to have lived in the atmosphere of the Shaws, to have been taught from the wealth of their experience, and to have learned of their philosophy of life."

RE HOMECOMING 1973

Using the theme of Lamplighters, Homecoming this year showed an increased attendance over last year and more persons staying over for the Brunch on Sunday morning.

New feature this year was a Saturday-night get-together for refreshments and remembrances. Letters from alumni unable to attend were arranged by classes and available for reading.

Letter from T. S. Geraty, chairman, department of education, reads: . . . "I commend you for the inspirational theme of "Lamplighters" which you ably employed. I like the thought that "you can tell a lamplighter by the trail he leaves behind," which, with the art work, brought very deep impressions and influence upon those who saw and used the materials."

Excellent addresses by Dr. Gottfried Oosterwal, professor of missions and comparative religion, and by Viggo Norskov Olsen, alumnus of the year and provost at Loma

Linda University (La Sierra campus) will be excerpted in next issue of FOCUS.



THE AUAU BOARD OF DIRECTORS. Standing, left to right: Donald Prior, vice president for public relations and development; Kendall Hill, association treasurer; Elizabeth Foster Wilkins; James S. Barclay, chairman of special projects; Jeannette Hodge; Wilson Trickett, past president and chairman of nominating committee; Paul Hamel; Marilyn Wilkinson Gregg; Clare Luke; Dr. Horace J. Shaw, executive secretary. Seated, from left: Opal Hoover Young, editor FOCUS; Elsie Buck, vice president; Floyd L. Costerisan, president; and Lucy McKinney. Members not shown: Helen Merriam Diehm, John R. Ford, MD; and Richard H. Rasmussen.

Appointees to AUAA's Hall of Fame 1973

ALUMNI



Frank Lewis Marsh

Cited for the AUAA Hall of Fame for his work at Andrews University as teacher and writer and as making a great contribution to the creationist literature of the Seventh-day Adventist denomination, Frank Lewis Marsh—biologist, educator, author—is an alumnus of AU on four counts. He received a premed diploma in 1923, a BA degree in 1927, a BS degree in 1929, and was a teacher on the college staff in biology and in the Theological Seminary for 22 years. He has taught biology and creationism in SDA educational institutions for 43 years and now holds the rank of professor emeritus of biology. He was born near Aledo, Illinois, October 18, 1899.

EDUCATION. Marsh's formal higher education was obtained at Andrews University, the University of Chicago, Northwestern University (MS '35), and Michigan State University. He holds the PhD degree ('40) from the University of Nebraska.

POSITIONS. Marsh has served as assistant professor, associate professor, and full professor of biology and as acting head and as chairman of biology departments at Union College, Lincoln, Nebraska, and at Emmanuel Missionary College and Andrews University.

At the SDA Theological Seminary, Marsh has been professor of philosophical biology and paleontology ('59-'60) and professor of science and religion ('60-'65). He also taught creationism classes several summers at the Seminary when it was still located at Washington, D.C.

OTHER ACTIVITIES. Marsh was director of and teacher at the Rocky Mountain Biological Station, Chambers Lake, Colorado (summers of '48 and '49); chairman of the Quadrennial Conference of Science and Math Teachers ('48 and '52). On invitation of the Northern European Division of SDA's, Marsh spent the summer of '57 in Denmark and Germany meeting with SDA science teachers and lecturing on creationism.

With nine other creationist scientists, not SDA's, Marsh founded the Creation Research Society in '63, serving as its vice president in 1966. Marsh, with six other SDA biologists, founded in '69 the Life Origins Foundation in his living room at Berrien Springs. In 1972 he became treasurer of the Foundation.

PUBLICATIONS. Dr. Marsh's published books number 22, largely on creationism. He has had a total of 128 articles published in learned periodicals and in denominational publications. The articles have appeared in 30 different publications.

HONORS. Most recent honor accorded to Dr. Marsh was the renaming of the Life Sciences Building at Andrews University to carry his name and that of his wife. The new name is The Frank Lewis Marsh and Alice Garrett Marsh Hall. Both Dr. and

Named to the AUAA's Hall of Fame this year were (left to right) Dr. Frank Lewis Marsh, Dr. Natelkka Burrell, Elder C. L. Powers (not shown), and Elder Kenneth Wright. In the absence of Elder Powers, the award was accepted by his daughter-in-law, Mrs. Bruce Powers.

Mrs. Marsh have chaired departments in that building. Mrs. Marsh is currently chairman of the home economics department.

In 1971 Dr. Marsh was named professor emeritus of biology at Andrews University. He is an active member of Sigma Xi (Honorary Scientific Research Society), and his name is listed in *American Men of Science*.

Natelkka Burrell

After three "retirements" and fifty years of service to the SDA educational system, Dr. Natelkka Burrell is (since 1964) teaching on the college and graduate levels at Andrews University— "contented, happy, busy, for as long as God and man so will." For her outstanding service and achievements and for her perseverance and faith in overcoming career obstacles, AUAA proudly adds her name to the list of honored alumni named to the Hall of Fame.

EDUCATION. Dr. Burrell received a junior college diploma from South Lancaster (Massachusetts) Academy in 1917; diplomas from the School of the Modern Theater in the areas of cultured speech and international phonetics and in dramatic art, 1937; the BS degree from AU in 1943; the MA degree from the University of Wisconsin, 1947; and the EdD degree from Teachers College, Columbia University, New York City, 1959.

POSITIONS. With the exception of grades 11 and 12, she has taught on every level from nursery to graduate school. To start her college professional career, she was dean of women for one year at Oakwood College, Huntsville, Alabama. She then became head of the department of education at Oakwood, a position she held for 21½ years, when she was hired full time by the General Conference as associate editor with Miss Ethel Young for the Adventist Basal Reading Series. During the time she was at Oakwood as head of the department of education, she made a continuous study of teacher education programs in the US and built up Oakwood's education department so that its graduates were well qualified to compete with those of other US schools. To carry out this program, she sometimes taught personally as high as 21 or more semester hours. She also organized the first FTA (Future Teachers of America) chapter in the state of Alabama.

PUBLICATIONS. Besides authoring many magazine articles, Dr. Burrell has co-edited 61 books (Basal Readers and Guidebooks).

HONORS. Miss Burrell's name is listed in *Who's Who in American Colleges and Universities*, and in *Outstanding Americans*. She has been named professor emerita of Oakwood College, cited for excellence by the SDA General Conference department of education, and elected to two national honor societies: Pi Lambda Theta (by the University of Wisconsin) and Kappa Delta Pi (by Teachers College, Columbia University). Last summer the Michiana Chapter of Oakwood College Alumni Association honored her with gifts and citations at a testimonial dinner hosted in her honor.



Hall of Fame—Continued

Kenneth Albert Wright

Kenneth Albert Wright was cited by the AUSA for Hall of Fame listing because of his contribution to SDA educational work.

Fifth child in a family of 12 (each one with a different shade of red hair), Wright was born in Buffalo, New York, March 4, 1903, to Mr. and Mrs. George F. and Ella Genung Wright. He was reared on a dairy farm in Western Pennsylvania and attended public school through the tenth grade.

EDUCATION. His first contact with SDA schools was at Fernwood Academy in Tunesassa, New York, after his mother became a Seventh-day Adventist by reading Elder J. N. Andrews' book, *History of the Sabbath*. Wright was graduated from junior college in South Lancaster, Massachusetts, in 1922, and received the bachelor of arts degree from AU in the summer of 1923, later did graduate work at Columbia University in New York City, and in 1938 earned a master of arts degree from Cornell University, Ithaca, New York.

POSITIONS. Wright's departmental service record lists numerous areas of work: 3 years as dean of boys at Union Springs Academy, New York; 3 years, principal and business manager of Pine Tree Academy, Maine; 5 years, in the same position at Union Springs Academy, New York; 3 years, educational and MV secretary of Maine, New Hampshire, and Florida; 5 years, principal and manager of Forest Lake (Florida) Academy; 1 year, educational and MV secretary of the Southern Union.

Wright served for twelve years, plus, as president of Southern Missionary College, Collegedale, Tennessee, until ill health necessitated his retirement from college administration in 1955. The story of his contribution to Southern Missionary College in the form of a revolution in the work-study plan of education at the college, written by Cecil Coffey, was published in the *Christian Herald*, March 1956. In the same month and year, a condensation of the story appeared in *The Reader's Digest*. The campus at SMC has a building bearing the name of this educator—The Kenneth Wright Hall.

After his retirement as administrator at SMC, Wright served four years as pastor of churches in Murray, Kentucky; Fort Lauderdale, and Avon Park, Florida. He has spent the last thirteen years (and is presently serving) as Trust Field representative of the Florida Conference Association.

Wright is married to Clara Jeannette Nowsorthy.

Clarence L. Powers

Added to the Hall of Fame listing this year with a citation by the AUSA for his varied and accomplished service to the SDA denomination is Clarence L. Powers, BA '33.

POSITIONS. Currently (since 1972) Powers is president of the Euro-Africa Division of the General Conference of SDA's with headquarters at Bern, Switzerland.

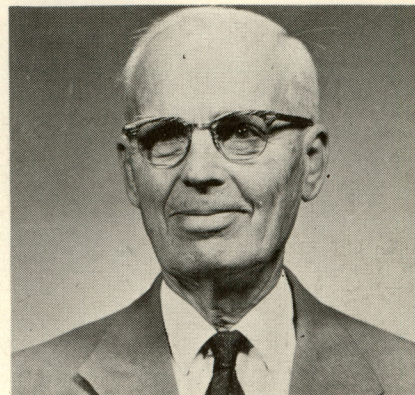
Former posts held by Powers in chronological order are: 1933-1935, work at the College Press and advanced study at AU; 1935-1936, cashier, Southern Publishing Association, Nashville, Tennessee; manager, Academy Press, Union Springs Academy, New York; superintendent of the College Press, Atlantic Union College, South Lancaster, Massachusetts; secretary-treasurer, Upper Magdalena Mission, Bogota, Colombia, SA; president, Colombia-Venezuela Union Training School, Medellin, Colombia; business manager, Sunnysdale Academy, Centralia, Missouri; secretary-treasurer, Nebraska Conference; secretary-treasurer, Antillian Union, Havana, Cuba; president, Franco-Haitian Union, Port-au-Prince, Haiti; president, Inter-American Division, Coral Gables, Florida; president, Trans-Mediterranean Division, Bern, Switzerland.

Powers notes that perhaps he is the only worker in the denomination who has served the church as president of four divisions of the General Conference within eighteen months' time! He explains that on June 15, 1970, he was elected president of the Southern European Division by the delegates in session in Atlantic City. Within a week the name was changed to Trans-Mediterranean Division; and at Autumn Council, 1971, when the Trans-Mediterranean Division was merged with the Central European Division, Powers was asked to serve as president of the new Euro-Africa Division.

Powers is married to Sylvia Pappan.

Kenneth Wright, honored this year with Hall of Fame listing at Homecoming, is surrounded by relatives who chose the occasion for a family reunion. It was the first time the group had been together in 12 years.

Outstanding Science Teacher



Dr. Reu E. Hoen

In the year of the opening of the new \$3 million science complex, Andrews University pays tribute to one of its outstanding science teachers, Dr. Reu E. Hoen.

A graduate of Union College (Lincoln, Nebraska), BA '13, Hoen was on the faculty at Andrews from 1929 to 1937. Hoen was one of the first Seventh-day Adventist teachers to receive a doctorate, a degree conferred on him by the University of Chicago.

In 1931-32, Dr. Hoen designed and did a lot of the actual building of the old science building at Andrews, now renovated since the completion of the new complex and serving as the Art Center at AU.

During his 40-year career, Dr. Hoen has taught at a denominational elementary school, at high school, at Emmanuel Missionary College (now AU), at Pacific Union College, briefly in Canada, and for a three-month term in Hawaii.

The eighty-seven-year-old creationist has authored numerous articles on creationism and is currently working on a book on creationism. The Sabbath School lesson studies of the denomination, entitled "Creation and Redemption," for the third and fourth quarters of the year 1951 were written by Hoen. He also authored a lesson-help book, *Creation and Redemption*.

Hoen has spent the last year in India with his daughter Alice (Mrs. Bert Stickle) and her husband at Spicer Memorial College at Poona. He plans to return to Michigan this summer.



Alumni of the Year 1973



President Richard Hammill, second from right, and Wilson Trickett, AUA president, present copies of *THE WISDOM SEEKERS* (history of AU by Dr. Emmett K. Vande Vere) to the two persons selected as alumni of the year: Dr. Viggo Norskov Olsen and Elsie Landon Buck.

Viggo Norskov Olsen

Named Alumnus of the Year, 1973, by the AUA, Dr. Viggo Norskov Olsen is a native of Denmark and holds three degrees from Andrews University: BA '48, MA '50, MDiv '51.

EDUCATION. Other degrees earned by Olsen are the MTh from Princeton Theological Seminary, the PhD from the University of London, and the DTh from the University of Basel. Olsen studied under such renowned theologians as Karl Barth and Oscar Cullmann.

POSITIONS. His denominational services include the following posts: pastor-evangelist in Denmark; chairman, Bible department, Newbold College, England; academic dean, Newbold College; president, Newbold College; professor of church history, Loma Linda (California) University; chairman, department of religion, LLU; dean, college of arts and sciences, LLU.

Present position held by Olsen is Provost, La Sierra Campus, LLU, the chief administrative and academic position on the La Sierra campus.

PUBLICATIONS. Olsen's scholarly contributions include numerous articles in learned magazines and two books that he has authored: *The New Testament Logia on Divorce*, published as Volume 10 in a series of theological books sponsored by some of Europe's leading theologians; and *John Foxe and the Elizabethan Church*, published by the University of California Press, February, 1973.

HONORS. Olsen was invited by the British Ecclesiastical History Society to read a paper at its annual meeting held at the University of Cambridge in July, 1972; and his standing as a recognized church historian by Reformation scholars is evidenced by the invitation he received to serve as co-editor of a multi-volume, bio-bibliographical dictionary of sixteenth-century figures. This work is sponsored by the Foundation for Reformation Research (Concordia Theological Seminary), in St. Louis, Missouri.

Dr. Olsen's name is listed in *Outstanding Educators of America* and in *Personalities of the West and Midwest*. He received the title of First Distinguished Faculty Lecturer from Loma Linda University, 1972.

MEMBERSHIPS. He holds membership in three professional learned societies: British Ecclesiastical History Society, American Church History Society, and the Society for Reformation Studies.

Dr. Olsen is married to Anita Lippi of Chicago.

Elsie Landon Buck

Besides distinguishing herself in her profession as teacher and performer of music, Elsie Landon Buck, BA '43, MMEd '64, cum laude, has been recognized nationally for her civic work in Michigan. She is named Alumna of the Year by the AUA for her professional and civic achievements.

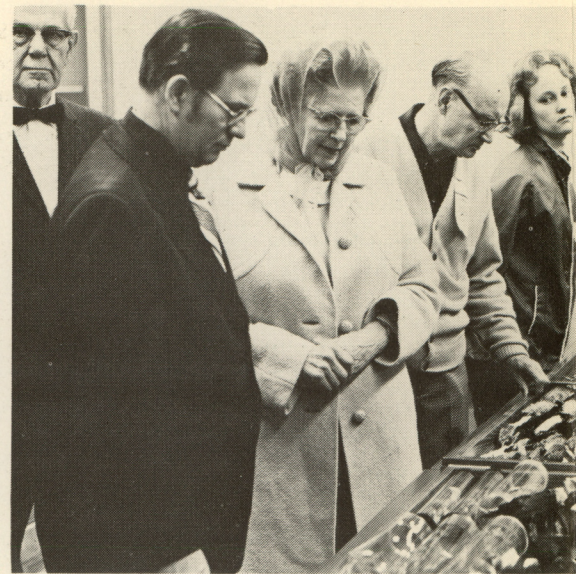
Mrs. Buck was born at Rio de Janeiro, Brazil, to Mr. and Mrs. Archie B. Landon.

EDUCATION. Mrs. Buck studied at Instituto Nacional de Musica, Sao Paulo, Brazil; attended school at Rio; completed the Curso Ginasiol at Brazil College, Sao Paulo; attended school at Southern Junior College, Keene, Texas; the University of Chattanooga; Andrews University, and the University of Michigan. She was a piano pupil of Frutuoso Viana and Camargo Guarneri in Sao Paulo, of Francisco Mignone in Rio, of Harold Cadek, Harold Miller and Blythe Owen, USA. She studied piano pedagogy with Dr. Guy Duckworth, Dr. Leo Podolsky, and Dr. Morris Taylor. She has studied at the Paul Christiansen Choral School, has studied journalism, and has attended Chorister's Guild Seminar.

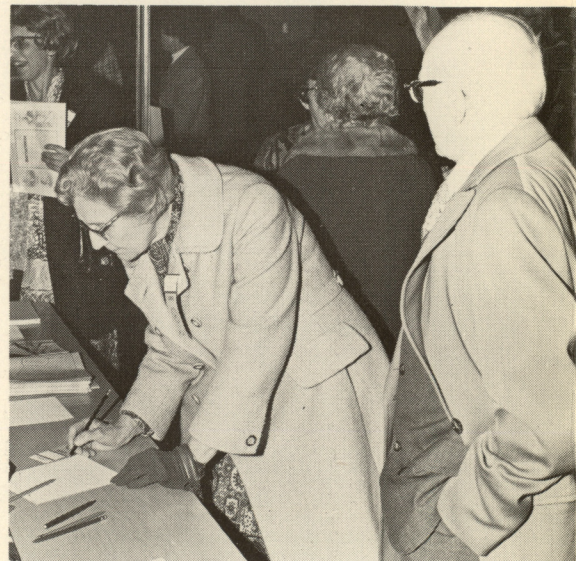
POSITIONS. In chronological order, Mrs. Buck has held the following positions: private piano teacher since 1940; chairman of music department, Cedar Lake Academy, Michigan; music teacher and choral director, Vincent Hill School, Mussoorie, India; music teacher, piano, at the elementary school and junior high at Greater Miami (Florida) Academy; piano teacher on fellowship at Andrews; music teacher, St. Joseph (Michigan) Public Schools since 1964.

MEMBERSHIPS. Mrs. Buck is chairman of the Southwest Chapter of National Guild of Piano Teachers; vice president of the Michigan Chapter of the Adventist Church Musician's Guild; member of Board of Directors, Keep Michigan Beautiful, Inc.; past chairman, District 4, Keep Michigan Beautiful, Inc.; past president, Berrien Commission on Development and Beautification; member of Board of Directors (3 years) of the All-Miami Youth Symphony Orchestra; member, Michigan Conference Advisory Committee; member of National Education Association, Music Educators National Conference, Michigan Music Education Association, International Society of Music Educators, Chorister's Guild of Piano Teachers, Association of Adventist Forums, and American College of Musicians.

PUBLICATIONS. Her published works include articles in numerous publications. She is a recording artist with Chapel Rec-



On Sunday, visitors toured the science complex. Above, some of them look over a display of specimens in the biology lab.



Don Young and Opal Hoover Young sign Homecoming registry before the Friday vesper service.

ords, and she also did a special recording of 18th-and-19th-century music for Clube de Incentivo a Educacao Christa, Rio de Janeiro, 1971, for a charity project.

HONORS. Due to her achievements as chairman of the Berrien Commission on Development and Beautification, the organization was awarded the Distinguished Achievement Award from the National Clean-up Bureau, Washington, D.C.; the Outstanding Service Award from Keep Michigan Beautiful, Inc. at Lansing; and the Distinguished Public Service Award from Keep America Beautiful, Inc., New York.

Latest honor is her election to vice president of AUA.

Biographical notes on Mrs. Buck have appeared in the 1970-71 edition, *Community Leaders of America*; and in the 1973-74 edition, *Dictionary of International Biography*.

Mrs. Buck is married to Edwin F. Buck, Jr., PhD, associate professor of communication arts, Purdue, Indiana (North Central campus) University.

Insight on How it Feels to Be Honored Alumni

Kenneth A. Wright:

"What a surprise and shock to receive your recent letter! Are you certain you don't have the wrong man? I've never been a foreign missionary; I've never written a book; and I have no PhD!"

Natelka E. Burrell:

"That I have been chosen to be honored by Andrews Alumni Association is indeed a surprise and a rare privilege. I have done so little where so much needed to be done that I am humbled by this expression of appreciation for doing what has been my joy and contribution toward hastening the coming of our Lord. All I can say is, 'Thank you.'"

Frank L. Marsh:

"Your letter of January 17, notifying me that the Alumni Association of AU has elected me to the Hall of Fame for 1973, gives me profound joy. In great humility I say, 'Thank you!' I am pervaded with love for my alma mater, and its success as a modern School of the Prophets lies very near the very center of my life."

V. Norskov Olsen:

"During the years various institutions and organizations have been most gracious to me, but of the various recognitions which I have received, I count the one of being Alumnus of the Year the greatest. Having received three degrees from Andrews University, I owe much to that institution. I have great interest in following the tremendous progress of Andrews University, and I am certainly proud of my alma mater. . . . Will you convey my deep-felt thanks to the committee who chose me for this great honor."

Clarence L. Powers:

"To say that your letter of January 17 was a surprise is almost an understatement! The activities of the past few years have been so intense that there has been no time to think of recognition or honor. It was moving to know that the Alumni Association of Andrews University had recommended my name for the Alumni Hall of Fame. Actually, I feel very humble, for if I have been able to make a contribution to the church, I have been only an instrument in God's hands. . . . It has been a joy to serve the denomination since 1935—in lean years and in times of comparative prosperity, in faraway places and at home—as an apprentice and as a leader. If I had another life to live, I would not choose otherwise. The training I received at Emmanuel Missionary College [AU] laid the foundation for my work, and the Lord has guided and blessed in a marvelous way."

Elsie L. Buck:

"Your most gracious letter is before me. I am speechless! What does one say when so much is attributed to one person and that person feels so unworthy of the honor bestowed? When I think of all the good and deserving people that have passed through the halls of Andrews University, outstanding in the careers they have pursued following graduation. . . . I tremble at the thought of being the Alumna of the Year 1973. I wish I could bring in to share this honor with me, many others."

AUAA-Sponsored Colorado River Float

Dr. Omer Drury, an SDA physician practicing in Troy, Idaho, in charge of all aspects of transportation for the AUAA-sponsored Colorado River trip, June 6 to 14, gives a glimpse of some aspects of the trip to stay-at-homers.

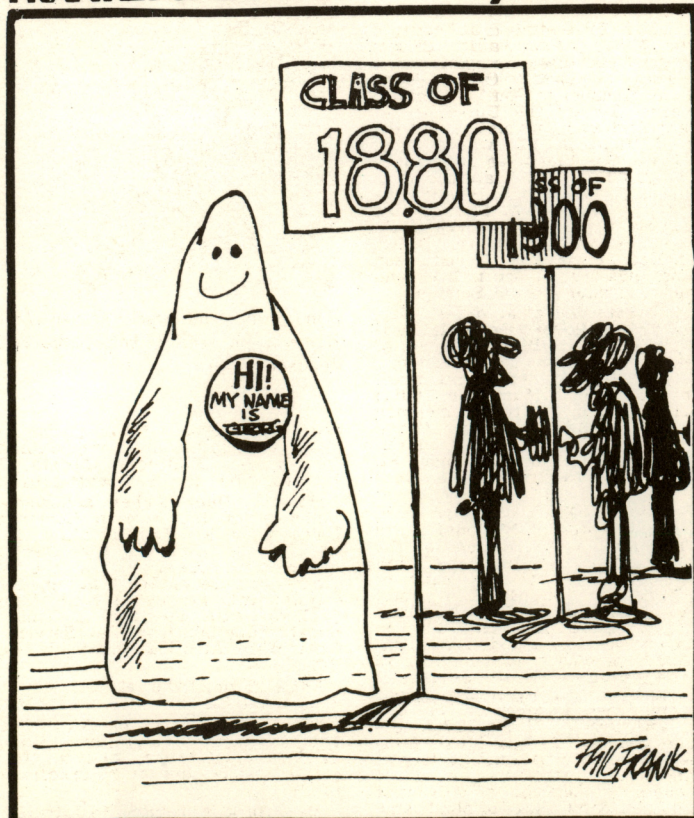
"As to the fixed time of starting and stopping. My wife and I get up soon after daylight. We often go for a short hike of exploration as do some of the other early risers in camp. Some of the crew start breakfast and have it ready by the time the majority of folk are in the notion of eating. After breakfast we lash on the load. This often takes an hour, so others have a chance to do some exploring, often in a different direction.

"How big a hurry we are in to start and how late we float in the evening is regulated to quite an extent by the water flow. The Glen Canyon Dam is approximately 20 miles above the starting point at Lee's Ferry, and water is released according to the need to generate electricity. The low point of this is around the wee hours of the morning, and often there is not enough water to leave Lee's Ferry before around noon. The water flows down the stream at the rate of approximately 120 miles in 24 hours. The farther you go down stream, the more the high and the low points tend to blend together, but they are still definitely present. High water is easier to travel on, so we tend to start earlier on the mornings the water is going by and later on the mornings when it is down and will be rising. We travel a little faster than the water does, so we tend to gain on the crest or, if ahead of it, to gain on the low. So we try to plan the trip ahead of time to take advantage of these highs and lows as much as possible. This released water tends to group all of the floats within a three-day period, and the Park Service brings a lot of pressure to bear to stagger the starting times by limiting the number of permits to start on any given day. . . .

"About the morning worship. We have found the time right after breakfast and before floating the time

Continued on page 38

FRANKLY SPEAKING by Phil Frank



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Speaker James S. Barclay presents topic to audience and panel (right) for discussion. Considered was: "How to Be More Efficient in Presenting Christ to the People."



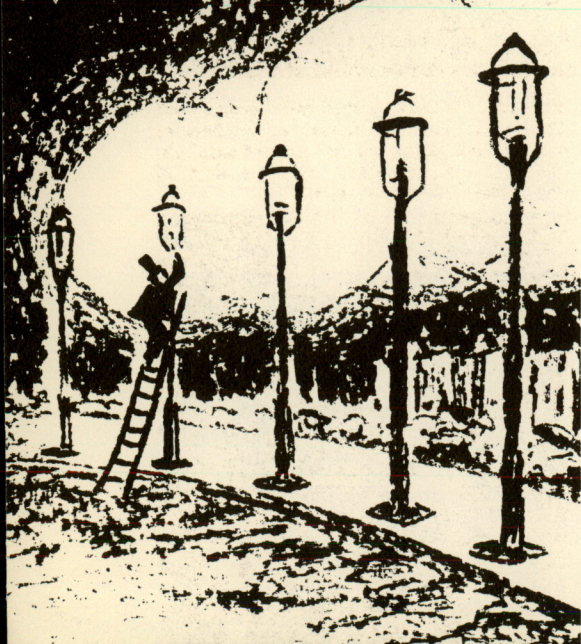
**LAMPLIGHTERS—
HOMECOMING THEME**



The Chamber Players with LeRoy Peterson, director and solo violin, played for the Sabbath vespers. Meditation speaker was alumnus of the year Viggo Norskov Olsen.

**YOU CAN TELL
A LAMPLIGHTER
BY THE TRAIL
HE LEAVES
BEHIND**

Sam Reed, class of '53 and former faculty member, plays the piano as Beverly Velting sings, "The Old Lamplighter." Mrs. Velting did the Lamplighter design for the program cover—theme of the 1973 Homecoming.



WELCOME ALUMNI LAMPLIGHTERS

HOMECOMING 1973



The University Singers, with director Rudolf Strukoff, harp, and timpani, present "The Seven Last Words of Christ" at Homecoming vespers Friday.



Homecoming was an international affair. Kenneth Hill registers.



Dr. Horace J. Shaw greets two Homecomers: Otto Arndal, MD, FACP, class of '29, head of joint commission on accreditation of hospitals; and Lester Sevener, MD, vice president of the golden anniversary class.



Alumnotes

Erling Lund, former staff member, and **Mrs. Helen Lund**, BA '65, MA '66, write that they "really enjoy the FOCUS.

John S. Wang, MD, DABR, BA '56, has moved from Mansfield, Ohio, to Ashland, Ohio.

From Eden Gardens, Inverness, Fla., **Dr. Frederick M. Boothby**, BS '28, and **Mrs. Mabel Wagner Noblett Boothby**, BS '56, write: "We are in a rural community of retired people; three fourths of the retirees are SDA's. Each one owns his own little home or mobile home, and the church is centrally located and the people are friendly." The Boothbys return to their home in Paw Paw, Mich., in June through September.

Lawrence A. Eldridge, MA '61, MDiv '67, has been promoted at Continental Illinois National Bank and Trust Company to the position of operations officer. Eldridge, who resides at Western Springs, Ill., holds a PhD (1967) from Princeton Seminary.

Robert B. Kessler, BS '70, and his wife, **Mary Elizabeth Simon**, BS '64, MS '70, are a conference-employed teacher team in grades one to eight at Elgin, Illinois. They plan to be at AU this summer when Mr. Kessler will enroll for graduate study.

Lyle Hamel, BS '49, and his wife, **Helen Hoagland**, pre-nursing '41-'42

(RN, Hinsdale, '46), are at Angwin, Calif. Mr. Hamel is assistant professor of music at Pacific Union College, and Mrs. Hamel is helping out part time at the St. Helena Hospital.



Arabella James Williams, '17, became "a chilled member" of the Penguin Club, sponsored by the San Diego Mission Bay Boat & Ski Club. Her official card declares that she has fulfilled her obligation by showing fearlessness in braving the rigors of water-skiing in subarctic waters of Mission Bay on the first day of January, 1973, and is thereby entitled to wear the official penguin emblem on her club jacket. Fearless Arabella is also scheduled to go on the raft trip with other alumni on the Colorado River, June 6 to 14.

Donald C. Schlager, BA '51, is working as insurance agent and accountant at St. Charles, Mich. He has been a State Farm Insurance agent since February, 1957, and also owns half interest in the Schlager Tax Service Company of St. Charles. His wife, **Margaret Remainder Schlager**, BA '66, is a school teacher at St. Charles, Mich.

Eta Mae Weaver Cooke, 2 yr nor '31, has retired after 31 years of teaching. She writes that these were very productive years spent with Dr. Edith Roach Snyder at Webster School in Pontiac, Mich; her unique approach to education placed Webster among the top ten schools in the nation. Mrs. Cooke did graduate study at Wayne University in 1950. She now resides at Holly, Mich.

Kenneth Alan Kirkham, MA '72, has moved to Hinsdale, Ill. He was married August 13, 1972, to Bodil Lund Johansen of Denmark preceding his graduation at Andrews on the 17th. He is now principal and teacher at the West Suburban Junior Academy at Brookfield, Ill. His wife is a physical therapist at the Hinsdale Sanitarium and Hospital.

"Beautiful Paper"

Jad J. Katrib, MA '65, has moved from Beirut, Lebanon, to settle in California. He is presently living at South Lake Tahoe. He says, "Thank you for the great efforts you're investing in this beautiful paper" [FOCUS].

Ed.—We appreciate appreciation! Also glad for helpful suggestions.

Brent A. Bills, BA '70, recently married **Diana L. Segrue**, BA '70, from Loma Linda University, School of Education. They reside in Loma Linda where Mr. Bills is a junior at the medical center. He plans to graduate, October, 1973.

James A. Sturdevant, BA '70, is in his second year of law school, Georgetown University, Washington, D.C.

"The Hoopers are on the move again," write **June Snide Hooper**, BA '44, and **Ralston Hooper**. They are now connected with the Pakistan Union School, where Mr. Hooper is teaching industrial arts and biology. Mrs. Hooper is helping with teacher-training and the library. They had previously spent some years in India and more recently taught at the Shenandoah Valley Academy, New Market, Va. The past two years Mr. Hooper taught drafting at a Virginia community college, and Mrs. Hooper did library work at SVA.

Muriel Harlow, MAT '72, has moved from Dayton, Ohio, to Worthington, where she is teaching third grade in the SDA school. We quote from her letter: "I loved my work at Andrews and know it is one of our finest colleges and the best graduate school in the denomination. The teachers at Andrews are an inspiration to their students." Miss Harlow says she hopes to return to AU for further work.

COLORADO RIVER

from page 35

when it is easiest to get a quorum. Everyone is present just as we push the floats away from shore, so that has been our time for worship.

"In the evening when we hit shore, we immediately unload, usually by forming a line. We have it organized so that the kitchen and toilets are set up immediately. While the people are choosing their bed site and blowing up air mattresses, etc., supper is cooked and usually ready by the time they are ready. On most evenings there is a period of time after supper to gather for evening worship and discussions."

Sounds like fun!

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1974 Is Centennial Year For Andrews University

The year 1974 marks the 100th anniversary of the founding of Battle Creek College, the forerunner of Andrews University. Special events will be held throughout the year to commemorate the anniversary.

Objective of the Centennial celebration, according to the steering committee, is to examine the university's heritage in order to (1) stimulate spiritual commitment and intellectual growth, (2) assist in charting the university's course for the future, and help in interpreting the purposes of the university to students, alumni, members of the Seventh-day Adventist church, and the community.

Historical Materials Sought

Displays of AU historical documents, pictures, and artifacts will be shown in various places during the centennial year. Any persons having materials relating to Battle Creek College and/or Emmanuel Missionary College are invited to lend or donate such materials to the AU Heritage Room. Loaned materials will be carefully handled and returned; donated materials will serve to preserve the past for the enrichment of the future.

Contact Mrs. Raoul Dederen, curator of the Heritage Room, an SDA archive located in the James White Library at Andrews University.

BRICK-HOARDER MARKE BOVEE lugs some of the original bricks from the Battle Creek College building up the stairs to the alumni office.

Don Prior presents one of the BCC bricks to outgoing AUA president **Wilson Trickett**. The brick is mounted on some trim wood from old Birch Hall and bears an engraved plaque of identification.



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- you are interested in getting a head start on tuition expenses for your college program.
- you are behind in your school work and want to catch up with your classmates again.
- you are an adult and are interested in getting enrichment for living through enrolling in some phase of college work.
- you are interested in enrolling in any of the classes offered this summer for college work.



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Vol. 9, No. 2

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