

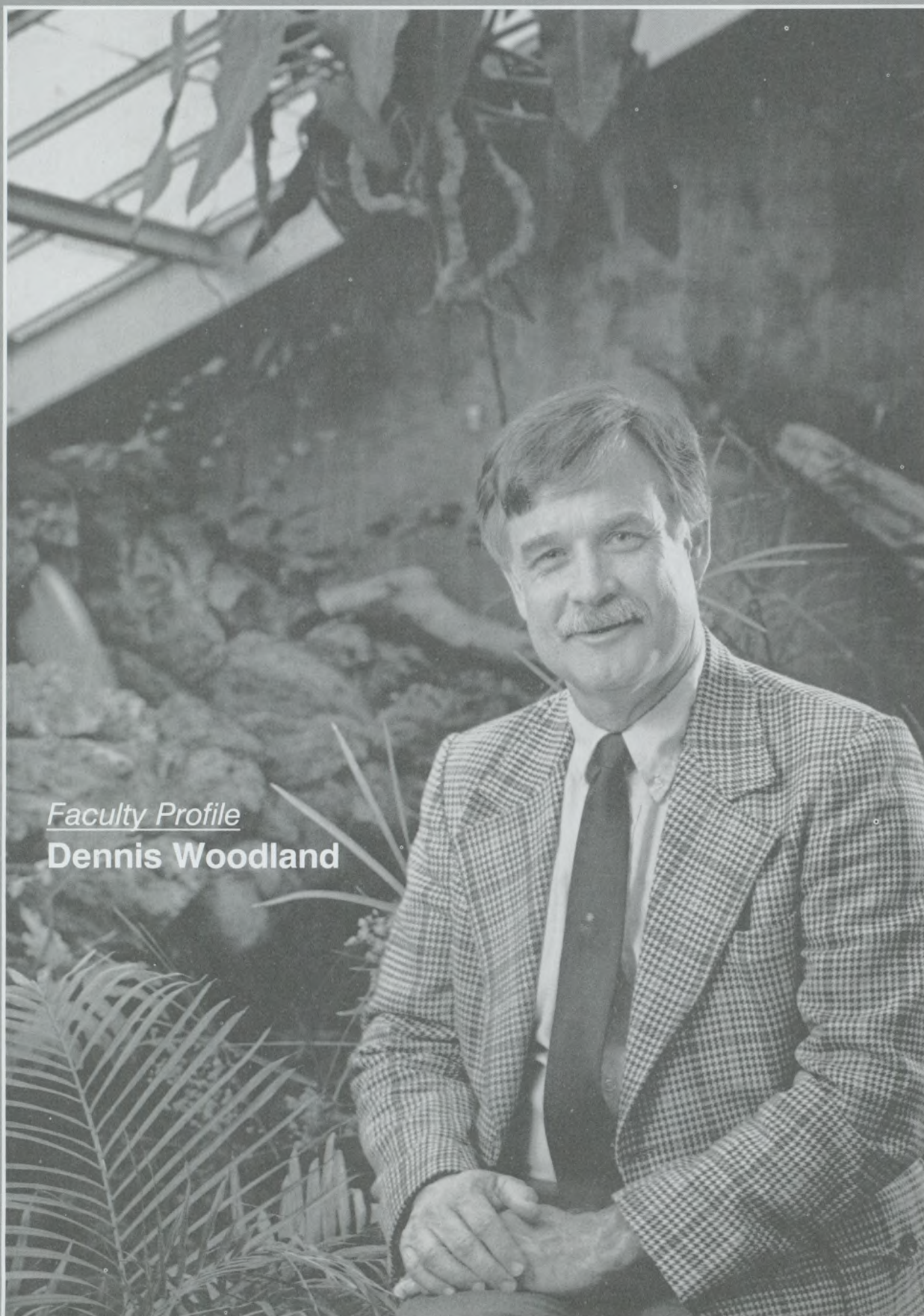
FOCUS

The Andrews University Magazine

Spring 1989

MAGAFILE

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Faculty Profile
Dennis Woodland

FOCUS

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About the Cover

For our front cover, Dr. Dennis Woodland was photographed in the biology department's greenhouse by Spencer Freeman, a senior photography major. The photograph on our back cover was taken by sophomore photography major Brad Leavelle, using infra-red film for the Advanced Technical Photography class taught by David Sherwin. The setting was just north of the St. Joseph pier in the spring of 1988.

Photo Credits

Brent Phillips: 16,17-m, 17-r; James Hayward 4, 17-1; Ernie Medina Jr.: 21-1; Laurie Stankavich: 22, 23; Jane Thayer: 2, 12; Dennis Woodland: 10, 11, 14-b, 15-1. All other photographs were taken by FOCUS staff or supplied by the persons photographed.

In This Issue

By a happy coincidence, my family and I were in England in 1986 at the same time that Dennis Woodland was researching at "Kew Gardens." He gave us an insider's tour of some of the world-rekowned research facilities located there.

The photographs I took of him that day have been sitting in a file box in my office for more than a year and a half, waiting for a resolution to "The Case of the Stolen Nettles." Finally, the story has an ending.

With the profile on Woodland, FOCUS begins a series that will feature faculty and showcase their expertise in areas of interest to our readers.

The rest of this issue's feature section highlights student activities: research, study in Europe and the Maranatha mission experience.

Unless you have been to an Alumni Homecoming Weekend in recent years, you may not be able to visualize all of the activities and excitement that the weekend generates. Be sure to check the list of events on page 27 and make plans to attend.

Perhaps some of you alumni will be inspired and motivated by Dan Fahrback's At Random piece to put some memories down in writing. If so, send a copy to FOCUS.—JT

Correction

In the Fall Annual Report issue of FOCUS, the Century Club was incorrectly described as listing contributors who give \$100 annually. It should have stated that Century Club contributors give \$100-499 annually. We apologize for this error.

Letter to the Editor

New Name for ASI

Delighted that ASI made the "Adventese Spoken Here" list (Winter 1988/89). ASI remains the same, but it now stands for Adventist-Laymen's Services and Industries.

Thank you for your part in producing an excellent FOCUS.

—S.C. Arnold (B.A. '50)

Executive Secretary and Treasurer

ASI

Washington, D.C.

Editor's note: FOCUS Received a phone call from someone who pointed out that the "seven natural remedies" listed in the SDA Subcultural Literacy List are really the "eight" natural remedies.

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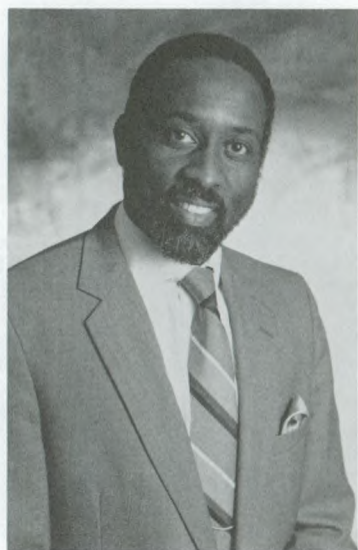
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Letters to Editor are welcomed and should be sent to:

Editor, FOCUS
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Berrien Springs, MI 49104

Campus Update



Newton Hoilette

Hoilette Named VP For Student Affairs

Newton W. Hoilette has been named vice-president of student affairs at Andrews University. He assumed the position full time as of January.

Previously, Hoilette was program manager at the Oakwood Downriver Medical Center in Lincoln Park, Mich. Prior to that, he was an administrative director for four years at a neuropsychiatric clinic in Detroit.

Hoilette has served as an adjunct professor of education at Andrews for the past seven years. He has given seminars on stress management, family life issues and career development throughout the United States, Canada and Bermuda.

He also consults on discipline management for Gardner & Associates in Detroit, Mich., through the programs Rational Approaches to Practical School Discipline, and Participating Parents for Progress Across the Midwest. Hoilette is listed in *Who's Who Among Human Services Professionals*.

Hoilette received a bachelor's degree in theology from West Indies College in 1968. In August of 1975, he completed a master's degree in religion with a concentration in counseling at Andrews University. He earned a doctor of education degree from Andrews in 1979.

Hoilette replaces Reger Smith, who has returned full time to the classroom as professor of social work.

Faculty Earn Advanced Degrees

Ten faculty members at Andrews University received doctoral degrees in the past two years.

Bruce Closser, assistant professor of English, received a Ph.D. in English in May 1988 from the University of Pennsylvania in Philadelphia. His dissertation was titled "An Ethnographic Examination of the Research Paper as Rite of Passage."

Gerald Coy, assistant professor of technology education, received a doctor of industrial technology degree in December 1987 from the University of Northern Iowa in Cedar Falls. His dissertation was titled "Manual Training: Its Role in the Development of the Seventh-day Adventist Educational System."

Patrice Cruise, assistant professor of nursing, received a Ph.D. from the University of Michigan in Ann Arbor in December 1987. Her dissertation title was "Bladder Behavior in Noninstitutionalized Frail Elderly Persons."

Zvonimir Hacko, assistant professor of music, received a doctor of music degree in choral conducting from Indiana University, Bloomington, in December 1988. His document title was "Missa in C by Amandus Ivanschitz—Critical/Performing Edition."

Georgina Hill, assistant professor of English, received a doctor of philosophy degree from Purdue University, West Lafayette, Ind., in December 1988. Her dissertation was titled "The Effect of Peer Critique Groups on Students' Critiquing and Writing Ability."

Douglas Kilcher, assistant professor of church ministry, received a doctor of ministry degree from Fuller Theological Seminary in Pasadena, Calif., in June 1987. His dissertation was titled "Pastoral Morale and Motivation: The Relationship of Selected Attitudes and Variables to Job Satisfaction With a View to Increasing Ministerial Effectiveness."

Øystein LaBianca, assistant professor of anthropology and chairman of the behavioral sciences department, received a Ph.D. in anthropology from

Brandeis University, Waltham, Mass. in May 1987. His dissertation was titled "Sedentarization and Nomadization: Food System Cycles at Hesban and Vicinity in Transjordan."

Scott Moncrief, assistant professor of English, received a Ph.D. in English from the University of California at Riverside in March 1988. His dissertation was titled "Dickens and the Reformulated Family."

Beverly Steele, assistant professor of nursing, received a doctor of nursing science degree from Rush University, Chicago, Ill. in June 1988. Her dissertation was titled "Evaluation of the Role of Direct Pressure Influence on Pressure Sore Formation: Measurement of Heel-surface Interface Pressure During Spot Floatation."

Brian Strayer, assistant professor of history, received his Ph.D. in history from the University of Iowa in Iowa City in December 1987. His dissertation was titled "Lettres De Cachet and Social Control in the Ancien Regime, 1659-1789."

Remodeled Horn Museum Reopens

With the presence of its founder and namesake, the Siegfried H. Horn Archaeological Museum at Andrews University reopened on Oct. 29. The museum had been closed for extensive remodeling since the summer of 1987.

Church leaders, archaeologists and friends gathered for a series of events to honor Siegfried H. Horn on the occasion of the museum's reopening and to celebrate his 80th birth year.

At the dedication service held Sabbath afternoon, General Conference President Neal C. Wilson spoke on the importance of the museum "to help us to remember the way God has led and guided His people."

Wilson, who first met Horn in Egypt in the early 1950s, said the museum "gives confirmation of the biblical record. I feel thankful that we have not followed 'cunningly devised fables.'"

Horn traced the history of the museum from a drawerful of artifacts he acquired to later additions from archaeological

excavations conducted in the Middle East.

"The primary purpose of the museum is to make the message of the Bible more meaningful through visual aids," Horn stated. "I'm happy I've lived long enough to see the museum in its present, permanent abode."

Also present for the services was Atlantic Union College President Lawrence Geraty, who became curator of the museum in 1976 upon the retirement of Horn. David Merling is the present curator. In 1978 the museum was renamed to honor Horn. The Horn Museum moved to its present location on Seminary Drive in 1982.

The \$100,000 in renovations to the museum building include the addition of 11 panels painted by Nathan Greene of Eau Claire, Mich. The murals were commissioned to provide a pictorial background for objects on display.

Minder Chosen Dean of Education

Warren Minder became dean of the School of Education at Andrews University, effective Nov. 1.

Minder had been education director of the Lake Union Conference of Seventh-day Adventists, based in Berrien Springs, for the past eight years.

Previous to that, he was associate director of education for the Lake Union Conference, superintendent of education for the Ohio Conference, and a secondary principal at three Adventist academies.

Minder received a bachelor's degree in biology and chemistry from La Sierra College, Riverside, Calif., in 1959. In 1965 he completed a master's degree in biology at La Sierra College. He received his doctor of education degree from Western Michigan University, Kalamazoo, in 1985.

Minder has chaired numerous secondary school evaluations for different regional accreditation associations and is a site visitor for the U.S. Department of Education exemplary school program.

Minder replaced E. Stanley Chace, who returned to full-time teaching.

Hayward Researches Egg Fossilization

A gull colony on the coast of eastern Washington, buried by the 1980 eruption of Mount St. Helens, serves as the laboratory for James Hayward, professor of biology, and two student researchers, Ted Robertson and Chrystal Spore.

This past summer Hayward continued a two-year egg fossilization study which began in 1987 and will continue through the summer of 1989.

Hayward's experiments examine the factors involved in the process of egg fossilization. These include much more than just what happens to an egg after it is buried. "What time of year was the egg laid? Where was the nest located? Was the egg broken by predators? Was the egg transported from the nest, and if so, how? These are all important factors in the fossilization process," says Hayward. "If I can know what happened to a fossilized egg before burial, much can be learned about the behavior and ecology of the organisms that laid the eggs."

A number of studies were conducted this summer aimed at discovering these factors in fossilized eggs. "In one study we compared breakage patterns

between eggs that had been preyed upon and those that were hatched or transported by various means. Preliminary results show that there appears to be characteristic patterns that will enable researchers to identify the history of broken eggshell fossils," says Hayward.

Other studies conducted include tumbling egg shells in a rock tumbler to identify breakage patterns and placing eggs in the path of incoming tides to discover the transportability of eggs.

Long-term research was also begun to study the effects of burial on eggs in order to discover how eggs are fossilized. Eggs with full embryos were buried in the field and in the laboratory. In a year these eggs will be uncovered and compared with fresh eggs. "We are especially interested in conditions favoring preservation of embryonic bones within the eggs," states Hayward.

Experiments yet to be conducted will include studies using an electron microscope to examine the micro-structure of eggs buried for two, seven and eight years. Further studies on the breakage and transportability of eggs will be conducted, including dropping eggs from different heights, floating whole

eggs down streams and determining the force required to break an egg.

Work will continue in the laboratory during the school year. With the help of a \$3,000 grant from the Geoscience Research Institute, Hayward plans to return to the gull colony this summer to continue his research.

Two Receive Andrews Medallions

The John Nevins Andrews Medallion was presented by Andrews President W. Richard Leshner to two faculty members during fall quarter.

"The award is given periodically in recognition of significant achievement in the advancement of knowledge," Leshner stated.

Steven Vitrano, professor emeritus of preaching, liturgics and evangelism, received the medallion at a Seminary faculty meeting on Sept. 26.

"Dr. Vitrano has contributed greatly in the practical training of ministerial students. We honor him for his long service to the church as minister and teacher," Leshner said.

Wilfred Futchler received the medallion on Nov. 12 during a general faculty meeting. Futchler is chairman of the department of educational and counseling psychology and professor of research and statistical methodology.

In recognition of the many functions he has performed at institutions around the world, Futchler was cited for his influence on Seventh-day Adventist education and for his service at Andrews.

J.N. Andrews became the church's first official overseas missionary when he went to Switzerland in 1874. Andrews University was named in his honor.

Andrews Attracts Merit Scholars

Nineteen Andrews University students received renewable National Merit Scholarships for the 1988-1989 school year.

To renew the scholarship the sophomore year, the student needs to have a cumulative

grade point average (GPA) of 3.0 at the end of the freshman year. A 3.25 GPA is needed for the junior year and 3.30 is needed to renew scholarships for the senior year. Beginning with the sophomore year, merit scholars are required to conduct 300 hours of research in their majors each year.

To qualify for a National Merit Scholarship, a student must score in the 95th percentile or higher on the Pre-Standard Achievement Test during the junior year of high school. Such a score automatically qualifies the student to be considered for a National Merit Scholarship. After the Standard Achievement Test is taken and transcripts reviewed, the student may then be named a semi-finalist or finalist. Although the tests are administered through the federal government, Andrews funds the scholarships.

The 19 students include, finalists: Bryson Borg, Wis.; Richard Coe, Mich.; Remy Evard, Okla.; Andrew Gillham, Mich.; Brent Hamstra, Mich.; John S. Kim, Mich.; Krista Motschieder, Ohio; Debra Navarro, Mich.; David Son, III.; David Winn, Pa.; and Karon-Jean Young, N.Y.

Semi-finalists are Michelle A. Anderson, Md.; Andrew Chung, Pa.; Joel Garbutt, Calif.; Steven Gottke, Mich.; and Michelle Pezet, Mich.

Students who scored in the upper six percentile are commended for National Merit Scholarship. These students are Randy Cornish, Md.; Jessica Mack, Md.; and Anne Oyerly, Mich.

Andrews Reaches Record Enrollment

Fall enrollment at Andrews University reached a record-breaking high of 3,215, according to figures released by Andrews President W. Richard Leshner.

The previous highest enrollment was 3,083 in 1981. Last year's total was 2,979.

The record enrollment primarily reflects increases in off-campus overseas extension programs. A total of 357 are enrolled through graduate extension programs at six overseas campuses.



The recovery of these buried ring-billed gull eggs, one year after the eruption at Mt. St. Helens, is part of biologist James Hayward's research.

"The overseas affiliations reduce the number of students coming on campus," Leshar stated. "By offering these degree programs Andrews University is able to serve more people seeking an education."

There was an increase for on-campus, tuition-generating undergraduates at 2009, while the on-campus postbaccalaureate level was 849, down 50 from last year.

The full-time equivalent figure, upon which the University bases its budget, is 2,562 compared to 2,451 for last year.

Of the five schools of the University, only the School of Education showed a decline, 295 this year compared to 304 last year.

The total of 3,215 includes 91 students enrolled in the new bachelor of science in nursing degree program begun at Kettering College of Medical Arts, Kettering, Ohio.

Student Movement Wins Awards

The 1987-88 *Student Movement* won first place among Michigan university newspapers in the University Press Club (UCP) of Michigan's annual competition.

The Award for Excellence in Journalism was given this past October to Troy Storfjell, last year's editor-in-chief, and Thor Storfjell, last year's systems manager.

Sponsored by the University of Michigan, UCP is now in its 71st year. This was the first year that the competition accepted entries from state colleges and universities.

In another unrelated competition, the *Student Movement* received a first class rating with three marks of distinction from the Associated Collegiate Press.

CSAP Presents Lecture In Washington, D.C.

Two representatives of the Andrews Community Service Assistantship Program (CSAP) gave a presentation at a convention sponsored by the U.S. Department of Education's Fund for the Improvement of Postsec-

ondary Education. The convention was held in Washington, D.C., on Oct. 23.

Øystein LaBianca, CSAP executive committee chair and chair of the behavioral sciences department, and Desiree Ham-Ying, executive director, spoke on "CSAP: A Serve-Earn-and-Learn Plan."

The information presented has been submitted to the Senate Committee on Labor and Human Resources. The committee is studying a proposal that would require all college students seeking government financial assistance to serve two years in some form of community service.

Youth Service Acknowledged

Local youth service was lauded by civic and community leaders during an on-campus observance of "A Day in the Life of Youth Service."

Campus Outreach Opportunity League (COOL) and Youth Service America, national organizations that coordinate service activities on college campuses, designated Oct. 13 as a day to recognize youth service.

Students participating in the Community Service Assistantship Program at Andrews University were recognized for length of service and hours spent assisting service agencies in Benton Harbor and based on recommendations from their supervisors.

Receiving certificates of service were: Thewodros Asfaw, Rennae Elliott, Paula English, April Julian, Tim Miller, Larry Mitchell, Kimberly Potts and Mario Rankin.

During the recognition dinner, Michigan state representative Lad Stacey said, "What is good for Benton Harbor is great for Berrien County. 10,000 hours worked these past two years—Congratulations! Keep being involved!"

Benton Harbor Mayor William Wolf noted that the Benton Harbor community extends to Berrien Springs. "Andrews students come to work alongside our workers, to augment our resources."



Mario Rankin and Rennae Elliott received certificates of service for their work with the Community Service Assistantship Program, from Øystein LaBianca, chair of the behavioral sciences department.



Irville Rush presents his copy of E. A. Sutherland's book, *Living Fountains or Broken Cisterns*, to Elsie Buck, Andrews trustee who was instrumental in the restoration of the Sutherland House completed in 1987.

Sutherland Book Finds Way to House

A former Pioneer Memorial Church pastor donated the book that "changed the course of his life" to the Sutherland Memorial Library.

Irville Rush of Berrien Springs presented his copy of E. A. Sutherland's book, *Living Fountains or Broken Cisterns*, to the library on Oct. 30, 1988. It was exactly 87 years to the day after the first chapel service at newly-located Emmanuel Missionary College.

"I donated this book in gratitude for the profound influence

Sutherland and his wife had upon me during my years of ministry in the Kentucky-Tennessee Conference," said Rush.

While working in the Kentucky-Tennessee Conference, Rush became acquainted with Sutherland, who was the founder and director of the Madison Sanitarium and Hospital in Tennessee.

Receiving the donation on behalf of the Sutherland House was Elsie Buck, Andrews trustee who was instrumental in the restoration of the Sutherland House completed in 1987.



As part of Red Ribbon Week, students received red ribbons to wear as symbols of their commitment to the prevention of substance abuse.

Red Ribbon Week Focuses On Substance Abuse Prevention

More than 2,000 red ribbons were distributed as Andrews University observed Red Ribbon Week from Oct. 17 to 21.

"The purpose of Red Ribbon Week is to heighten students' awareness about the effects of drug and alcohol abuse," said Terry Slikkers, director for Collegiate Adventists for Better Living (CABL), which coordinates campus activities during the nationally-observed week. CABL provides an on-campus support group for students involved with drug and alcohol abuse.

Guest speakers during the week used personal stories to stress the importance of living a drug and alcohol free life. Cath-

leen Brooks, in her presentation "Adult Children of Alcoholics," discussed how growing up with alcoholic parents has influenced her life.

Brooks is the founder and executive director of "Next Step," a San Diego-based national center for education, training, and consulting in the field of alcohol and drug abuse.

Dan Clark, author of *Getting High—How To Really Do It*, spoke for assembly on Oct. 21. His presentation, "If It Is To Be, It Is Up To Me," moved the audience to laughter and tears. He stated that drugs and alcohol cannot be a part of life if one is to be the best he or she can be.

National Red Ribbon Week is sponsored by the National Federation of Parents (NFP).

Interior Design Students Attend Conference

Five interior design students from Andrews University attended Rapids Rally '88, a national student interior design conference sponsored by the Institute of Business Designers. The four-day conference was held in Grand Rapids, Mich., Nov. 9 through 12.

According to Neville Clouten, program head for external relations of the architecture department, the purpose of Rapids Rally is to prepare students seeking careers in the contract interior design industry to meet the challenges that exist in this profession.

This year's conference, the sixth biennial Rapids Rally, featured four prominent office furniture manufacturers. Tours of each company's facility and group discussions helped students understand the planning principles behind manufacturer's products.

Craig Conducts Nutrition Workshops in Australia

Andrews University professor of nutrition Winston Craig recently conducted nutrition workshops in Australia as part of the Lifestyle Convention Program sponsored by several local conferences.

From Sept. 14 through Oct. 6, workshops were given in the capital cities of Sydney, Melbourne and Brisbane. Workshop topics included "The Vegetarian Way," "Vitamin Mania," "The Great Nutrition Rip-off" and "Cancer and the Cabbage

Patch."

Several medical, dental and physical therapy students attended these workshops to learn how to integrate various aspects of nutrition into their various health ministries.

To supplement the nutrition lectures, Craig's wife, Jeanie, conducted cooking classes each evening.

"The purpose of these cooking classes was to teach how to prepare well-balanced vegetarian meals," said Craig. "There is a great interest in vegetarian cookery and the response was overwhelming."

Hasel Honored At Seminary Chapel

Gerhard Hasel was honored for his seven years of service as dean of the Seventh-day Adventist Theological Seminary during the Nov. 30 Seminary chapel program.

Hasel stepped down as dean of the Seminary effective Jan. 1, 1989. He will remain as professor of Old Testament. Raoul Dederen has been named acting dean.

During the service, representatives from the various clubs and organizations within the Seminary expressed their gratitude for the leadership, dedication and friendship Hasel has exhibited while Seminary dean.

Melvin Santos, president of the Student Forum and senior master of divinity student, presented Hasel with a plaque citing him for "uplifting Christ" in the Seminary.



Outgoing dean of the Seventh-day Adventist Theological Seminary, Gerhard Hasel, and his wife Hilde, receive a commemorative plaque from Melvin Santos, president of the Seminary Student Forum.

Archaeological Exhibits Stop at Andrews

Two traveling archaeological exhibits were on view at Andrews University during fall quarter.

"Frankincense and Myrrh: An Exhibition of Objects from the Red Sea Trade Routes During the Roman Empire" was organized and circulated by the Kresge Art Museum, Michigan State University.

Exhibit artifacts were on loan from various museums, including the Oriental Institute of the University of Chicago, the Kelsey Museum of Archaeology at the University of Michigan, and the Horn Archaeological Museum at Andrews.

"A Pharaoh at Tell el 'Umeiri, Jordan" displayed artifacts excavated from two digs in Jordan. Andrews University, in consortium with several other Adventist colleges, has participated in these digs.

Included in the exhibit were important inscriptions and objects highlighted by media presentations. Finds thus far have linked 'Umeiri with one of the last Ammonite kings, Baalis, mentioned in Jeremiah 40:14, and the aggressive 18th-dynasty Pharaoh, Thutmose III.

Hamlin Completes World Trek

With 7,200 miles behind her, Charlotte Hamlin rode her bicycle behind a television van across a bridge spanning Okanagan Lake, British Columbia, thus completing her trek around the world.

It was Sept. 27, 1988, and Hamlin had arrived at the hospital where she was born 70 years earlier in Kelowna, British Columbia.

Hamlin retired from Andrews in 1987 after 14 years as assistant professor of nursing.

Hamlin cycled and walked across America, Europe, Asia and British Columbia during her venture, which began on March 2, 1987. The purpose of the undertaking was to promote a healthier lifestyle for all ages, but especially for older people.

During the nine months on the road, Hamlin attracted media attention around the world.



The site of an old mission and trading post provided hands-on experience for an anthropology class at Andrews University.

During fall quarter, the Introduction to Anthropology class, under the tutelage of Lorita Hubbard, began excavating at Grove Park in Berrien Springs. Bjornar Storfjell, associate professor of Old Testament in the Seminary, is the project director.

Before calling it quits for the winter, students found an Indian arrowhead in beautiful condition and chips from the same stone near it. Other finds were bones of domestic sheep and fossilized materials.

In the spring two archaeology classes, along with community volunteers, are to continue the excavation. The Berrien Springs Village Council has approved the excavation in the park.

Gallup Pollster Interviews Andrews Students

With the Andrews Bookstore as her setting, Gallup pollster Sally Darsee surveyed Andrews students on name recognition and their opinions of products.

Darsee collected information for "Your Opinion Counts," an information and education program directed to the general public. It was developed to make consumers more aware of the impact that research has on their lives and of the effect their participation has on the development of products, services and policy.

NEWSBRIEFS

■ A new activity to welcome freshmen to Andrews University was implemented this fall. Some 20 students, faculty and administrators wearing "Just Ask" shirts assisted students and parents with unloading and hauling belongings into the dormitories.

Rewards came in unexpected ways. One of the "movers" met

a former school teacher she hadn't seen in years. Another helper assisted some students who later turned out to be the children of former schoolmates.

Based on the positive response, organizers plan to expand the moving day activity for next fall.

■ World Food Day was observed at Andrews University via a live satellite teleconference titled "Global Food Security: Focus on Africa."

Broadcast on Oct. 17, the fifth annual telecast was funded by the United Nations Food and Agricultural Organization, U.S. Agency for International Development (USAID), Xerox Corp. and the World Food Committee.

Representatives from USAID, the Economic Commission for Africa, and the International Council of Voluntary Agencies, among others, served as panelists for the teleconference. The home economics department coordinated the teleconference at Andrews.

■ "Getting to the Heart in Language" was the topic of a workshop presented by three

Andrews University faculty at the 78th National Council of Teachers of English.

The faculty were: Delmer Davis, dean of the School of Graduate Studies; Georgina Hill and Douglas Jones, both assistant professors of English. Susan Gardner of Walla Walla College, also assisted with the presentation on integrating young adult literature and student writing in secondary school English classes.

The convention was held in St. Louis in November.

■ In October, the Berrien County Council for Children re-elected Sue Murray as chair for the upcoming year. Murray is assistant professor of home economics at Andrews. The council has about 130 professional and lay members.

■ A sermon titled "The Promises of God Are For Believing" by Steven Vitano has been published in *Best Sermons*, 1988 edition. The book is published by Harper and Row and edited by James Cox of Southern Baptist Theological Seminary, Louisville, Ky.

Advancement



President Richard Leshner and Albin Grohar, director of development, accept a \$21,000 check from Garwin and Marilee McNeilus, major donors to the Business Executives' Challenge to Alumni (BECA) incentive program.

Andrews Nets \$21,000 in BECA Challenge

Andrews University received a \$21,000 check on Oct. 31 for surpassing goals in the Business Executives' Challenge to Alumni (BECA). Presenting the check to Andrews President W. Richard Leshner was Garwin and Marilee McNeilus, major donors to the incentive program.

The award was made during the Twelfth Annual Dinner for Philanthropy held in Minneapolis, Minn. Andrews qualified for the grant by raising \$332,677 for the annual fund from 2,798 alumni in 1987-88.

New Gifts and Grants

Recent gifts and grants to Andrews University have come for a variety of funds and projects.

The McNeilus Companies gave \$60,000 toward the new School of Business building and \$10,000 to student scholarships. Also contributing to the new building was the S-2 Yachts Company with a recent gift of \$32,500.

A gift of \$58,500 came from Frank and Dolly DeHaan for the DeHaan Work Incentive Endowment Fund.

Household International awarded a grant of \$10,000 to sponsor a free enterprise lecture series in the University's School of Business. The first \$5,000 installment on this grant has been paid with the second installment expected toward the end of 1989.

Grant To Benefit Services in Benton Harbor

A \$14,679 grant will help cover administrative costs of the Community Service Assistantship Program (CSAP) at Andrews University.

The U.S. Department of Education's Fund for the Improvement of Post Secondary Education (FIPSE) awarded the grant to be distributed for the period of October 1, 1988, through September 30, 1989. FIPSE awarded \$24,000 to CSAP in 1987.

"The initial grant was given because FIPSE wanted us to create a community service program where students could receive tuition assistance for their work in the community," said Desiree Ham-Ying, CSAP executive director. "Now they are indicating they want CSAP to continue this service."

Scholarship to Aid Students From Europe, Far East

Students from the Euro-Africa and Far Eastern divisions will benefit from the newly-established Alfred Curt and Anne Margarethe Koch Endowed Scholarship Fund.

In November, the nearly \$26,000 fund was established in honor of the Kochs by their children, Gunther and Hildegard E. Fellow Landschoot.

The Kochs served the Seventh-day Adventist Church in the above-named divisions, working 22 years in Japan and also at the Hamburg Press in Germany.

"As trustees of the estate, my sister and I want the scholarships to be used to train workers here to return to their homeland and serve the church overseas," said Gunther, a dentist in Bangor, Mich.

The interest from the fund will be used for scholarships, with the principal remaining in perpetuity.

WAUS Raises \$32,000 in Annual Fall Drive

Radio station WAUS (90.7 FM) raised over \$32,000 during its annual fall fund-raising campaign which ended Nov. 3.

The \$32,000 surpassed last fall's total of \$30,000, the previous fall campaign high, according to W. Michael Wiist, WAUS general manager.

WAUS set a higher goal this year to offset increased National Public Radio programming costs and decreased federal funding.



Amid snow and rain, the new School of Business building took shape during fall quarter. The building, to be named Chan Shun Hall after a Hong Kong businessman who was a major investor, is scheduled for completion by the fall of 1989.

Building Constructors Inc. of Benton Harbor was signed on as the contractor in September. The architect is Kingscott Associates Inc. of Kalamazoo.

Announcements

Field Trip To Jordan

Would-be archaeologists are invited to join researchers and students this summer on the dusty mound of Tell el 'Umeiri, Jordan, to continue sifting through what remains of a once thriving Ammonite city.

The excavations are part of an on-going study of Ammonite culture that began 20 years ago at Tell Hesban, Jordan, located only a few miles from Tell el 'Umeiri. This summer's dig, beginning June 19 and continuing through August 8, marks the third season at 'Umeiri.

The Madaba Plains Project is sponsored by Andrews University and a consortium of other Seventh-day Adventist colleges.

Participants may spend the entire seven weeks in the field or only the half season from July 11 through August 8.

The dig fees, which include board, room, some travel in Jordan and a mid-season trip to Aqaba, are \$1,600 for the full season and \$900 for the half season. Travel arrangements are extra.

Undergraduate and graduate credit in several disciplines is available through Andrews. Security forms for travel to Jordan must be completed in March. For more information contact Oystein LaBianca at (616) 471-3152 or 471-3273.

Christian Writers Workshop

Andrews University's annual Christian Writers Workshop, to be held June 5 to 8, will feature several new and returning guest lecturers and consultants.

Carole Gift Page, the prolific evangelical writer who was well-received as last year's banquet speaker, will return for the entire week, according to R. Lynn Sauls and Madeline Johnston, co-directors.

Dr. Dennis Hensley, who is a regional correspondent for *Writer's Digest* and who has published over 1,000 articles, will also return for the third consecutive year.

Other guest lecturers and consultants will include, Christopher Blake, award-winning editor of *Insight*, Dorothy Comm, professor of English at Loma Linda University; Kenneth Holland, editor of the award-

winning *Signs of the Times*; Lincoln Steed, book editor from Pacific Press Publishing Association; Dawn Sundquist, book editor from Tyndale House Publishers; Kit Watts, assistant editor of the *Adventist Review*; and a number of teachers and writers at Andrews University and from southwestern Michigan.

Attendance at last summer's workshop increased 41 percent over the previous year. Sauls and Johnston expect another increase this June.

Participants may take the workshop for one to two graduate or undergraduate credits. Special rates are available for senior citizens and for qualified high school gifted writers.

For further information, write Christian Writers Workshop, Andrews University, Berrien Springs, MI 49104-0050, or call (800) 632-2248 from Michigan or (800) 253-2874 from outside Michigan.

Gifted Writers Program

A Gifted Writers Program for high school and academy students will be offered for the second consecutive year June 4 to 11 in conjunction with the Christian Writers Workshop at Andrews University.

The program gives qualified secondary students and recent secondary graduates a chance to develop their creative writing skills, associate with professional writers and other young writers, and earn college credit at a reduced rate, according to Doug Jones, assistant professor of English and co-director of the program.

To participate, students must meet the following eligibility requirements: be a junior or senior or recent secondary school graduate, have at least a B+ average in all high school English classes, and provide a letter of recommendation from their current English teacher.

Plans include workshop seminars and field trips to Chicago and other places in Southwestern Michigan not visited last June.

For more information, write to the Gifted Writers Program, Andrews University, Berrien Springs, MI 49104-0040, or call (800) 632-2248 from Michigan or (800) 253-2874 from outside Michigan.



Kit Watts will be banquet speaker and a lecturer at the Christian Writer's Workshop.



John Powell

College Preparatory Seminar

Designed to benefit incoming students whose grade point average is below 2.0, this summer's College Preparatory Seminar will be held July 9 to Aug. 3.

The main goal of this program is to give the students an opportunity to evaluate themselves and determine where their niche in life is going to be. This seminar provides up to seven college credits of course work.

The cost for the four week seminar is \$500 and includes textbooks and an activity fee. Health insurance is an additional \$61 if the student is not presently covered. Room, board and other services are complimentary.

For more information, write or call the Coordinator, College Preparatory Program, Andrews University, Berrien Springs, MI 49104. Nationwide (800) 253-2874; in Michigan (800) 632-2248.

Summer Scholars Program

The second annual Andrews University Summer Scholars Program will be held July 9 to Aug. 3 for students who will be high school or academy juniors, seniors or college freshmen during the 1989-90 school year. A minimum 3.25 GPA, high scores on nationally standardized tests and recommendations from teachers are required for admission. Classes scheduled include literature, biology, writing, music and water sports. Scholarships

are available. For more information write: Dr. Merlene Ogden, Summer Scholars Program, Andrews University, Berrien Springs, MI 49104.

Family Life International

The 15th annual Family Life International, formerly Family Life Workshop, will be held June 4-12, 1989. Featured guests include John Powell, best-selling Christian author; Dolores Curran, celebrated speaker and author of the weekly column "Talks with Parents"; and Dr. Thomas Peter Ipes, Jr., director of the Christian Counseling and Educational Center, Newburgh, Ind. The theme "A Caring Home in a Caring Church" will be highlighted in the daily devotionals by Rene and Alvy Quispe. Those attending may complete two out of the eleven modules required for certification by the National Council of Family Relations. Family Life International 1989 is available for credit or non-credit. For more information call (616) 471-9880 or write Andrews University — FLI, Berrien Springs, MI 49104.

Celebration of Recovery

The second annual Celebration of Recovery, a retreat for recovering chemically-dependent Adventists and their families, will be held June 9 to 11 on the Andrews campus. For more information call (616) 471-3558 or write: Institute of Alcoholism & Drug Dependency, Berrien Springs, MI 49104.



In an attempt to replace the specimens lost in the ill-fated 1985 field trip, Dennis Woodland returned to the rain forest in Veracruz, Mexico, this past December.

Faculty Profile

The Case of the Stolen Nettles

by Madeline S. Johnston

For ten days during Christmas vacation of 1986, Dennis Woodland, Andrews University professor of botany, and William Kemke, a biology graduate student, joined a biology team from the University of Mexico and tramped through a tropical rain forest in Mexico collecting plant specimens. The hinterlands of southern Veracruz State had only recently been opened for exploration. Among the specimens they collected were live plants of an undescribed new species of nettle.

On New Year's Eve in the city of Puebla, their rented car, with its trunk full of collected plants, was stolen. Woodland reflects, "Whoever stole the car probably wondered what all that junk was and trashed it."

The rental agency directed him to sign some forms. Back home, the real sting came when his credit-card charge included the 25 percent deductible clause on the back of the car-rental form: 25 percent of the cost of a new Datsun. Because it was a University-sanctioned research trip, Andrews University insurance paid the bill.

But the theft necessitated a second field trip. This past December Woodland returned to Mexico and re-collected the undescribed species that had been stolen. In the same undisturbed tropical rain forest, which is rapidly being destroyed, he found the plant growing on Karst limestone. Accompanying him on this field trip was Kevin Easley, a biology graduate student fluent in Spanish.

The undescribed species is now growing vigorously in a special tropical chamber in the biology greenhouse. Woodland hopes it

can be grown commercially for a house plant. In any case, it is a species rescued before its natural habitat was completely destroyed. And that rescue, he believes, is an important role that biologists today must fulfill.

"Thinking Christians should all basically be biologists in philosophy," says Woodland. "If we're serious in our idea that nature is a reflection of the nature and personality of God," he explains, "we should build into our Christian philosophy a sound environmental Christian ethic." Woodland maintains we should all be knowledgeable about the basic processes and happenings in nature—acid rain, the shrinking ozone layer, carbon dioxide buildup, and others. "How are we going to address God's cre-



On the 1985 trip when the plants were stolen, Woodland was working with a team from the University of Mexico: Tom Wendt (left), professor of botany, and two graduate students.

ation?" he asks. "In the original covenant, God, man, woman, and creation were all involved, not just God and man."

Woodland's specialty is plant systematics—the naming, identification, and classification of plants. The classes he teaches at Andrews reflect his interests. Environment and Man, a general-education course, deals with ecological and environmental understanding, looks at issues, and suggests how Christians can better approach them. This coming spring a new course entitled Plants, Society and Man will look at how man has utilized plants and how plants influence what man does.

These classes are not dry. Gladys Frias, a graduate student in Woodland's Morphology of Plants class, says, "This is the first botany class I've ever taken, and I was afraid it would be hard, but he makes it so interesting that it's fun." She mentions field trips, too.

Craig Wiley, an undergraduate student, adds, "He has more than just a textbook knowledge. He's taught other places, and traveled widely, and he obviously knows a lot. He brings many samples to class, photographs he's taken, and so on."

The lecture today is on conifers. Woodland, in a bright orange lab coat, begins the period by tossing out three pine cones to students. Then he shows slides of various pines, firs, cedars, and larches—first whole trees, then close-ups of needles and cones, then light and electron-microscope views. In a strong voice, without notes, he explains points of identification and reproduction, continually using his hands, glasses, or pen-



In an undisturbed tropical rain forest in Mexico, Woodland discovered this undescribed species of nettle growing on Karst limestone.

cil against the screen as pointers. Occasionally his blackboard artistry clarifies a point.

The pine cones are passed around for close examination of seed formation. He gives the students familiar pegs to hang their learning on: "This pine needle, under the light microscope, looks a bit like a jigsaw puzzle." For interest he adds, "People can identify trees by a cross-section of the leaf—even if they don't know what the tree looks like." Important points are repeated or summarized: "Pollination occurs the first spring; fertilization occurs the next spring. If we have time at the end of class," he promises, "I'll take you outside, and we can look at the Scotch pines around our building here."

The cedar trees shown on the screen bring to mind one of Woodland's dreams regarding the environment. "I want to plant a couple of Cedars of Lebanon over by Bell Hall, where they'll be protected. They need a sheltered environment. I have one at my house that has survived two winters."

This is just part of a larger dream that makes his gentle blue eyes twinkle. He would like to see Andrews and its surrounding area designated as a botanical garden, with attention given to plants, trees, shrubs, and how they can enhance the campus. They could be integrated more with the curriculum. The agriculture and grounds departments would obviously be involved. "We could also have a biblical and archaeological garden, growing the plants mentioned in the Bible or discovered through archaeology," he suggests. "Retirees could

become involved—they could lead tour groups and provide volunteer labor and financial support. And Adventist history is tied to the botanical garden more than we sometimes realize. For example, Capt. Bligh of the *H. M. S. Bounty* and his expedition, which was ship-wrecked near Pitcairn, were sent to the South Seas by the Royal Botanic Gardens at Kew to collect breadfruit."

The history and role of botanical gardens in our society, and their role in environmental issues of the future, are explored in a chapter of a university-level basic textbook Woodland is writing, entitled *Contemporary Plant Systematics*. Woodland's writing habits are also systematic; he hopes to submit all the chapters well before his June 30 deadline. Allyn and Bacon Publishers of Boston will publish it; Simon and Schuster will market it outside North America.

Woodland says, "I am trying to give not such a provincialistic, but a world, view of

the subject. Most texts are out of Britain or the United States, but my travels have made me sensitive to this, and I am using international examples and trying to make the text acceptable in all English-language situations." Each chapter is being reviewed and critiqued by one or more specialists in the field.

He hopes the book will help young people develop a positive environmental ethic and show them how they can make a contribution in a world of endangered species and other environmental issues.

James White Library holdings are, of course, inadequate for writing such a text. Thus, in the spring and summer of 1984 and the summer of 1986, Woodland went on sabbatical to the Royal Botanic Gardens, Kew, just outside London, England—the world's premier botanical garden.

In London are also the British Museum of Natural History and the Linnean Society of London (of which, until recently, Woodland was the only SDA fellow). "In those three institutions," he adds, "reside almost 100 percent of the world's botanical literature." He also continues to cooperate with a couple of Kew staff members on some research projects.

Last spring, by invitation of the Chinese Botanical Association, a group of 33 botanists from 11 countries visited China for an interchange of scientific information. All were basic, not applied, botanists; Woodland was one of only three taxonomists. They visited the botanical institutes devoted to various projects in botany—"We have nothing like these institutes here," he said.



Biology graduate student Kevin Easley, who speaks fluent Spanish, accompanied Woodland on his latest Mexican field trip.



Left: In the Alpine House at Kew Gardens, Woodland photographs plants for his slide collection, which he uses in classroom lectures. Middle: Once a researcher clears the security check at the door of the Kew library, he can remove books from the shelves to his own study area by simply signing and leaving a small card in the place from which he got the book. Right: In Kew's herbarium Woodland examines one of the more than six million preserved plant specimens.

They also met with students and professors at universities. Woodland gave a lecture at the University of Peking, another at the China Association of Science and Technology (the government umbrella organization over all scientific and technological institutions). "I have never lectured to a more attentive group of students," said Woodland.

Raised mostly in northeastern Oregon, Woodland graduated from Walla Walla College, taught a couple of years in a Montana high school, and then earned his Ph.D. from Iowa State University. From 1971 to 1979 he taught at McGill University in Montreal, spending 1977 on leave as a visiting professor at Oregon State University. In 1979 he came to Andrews.

Woodland's personal research centers around the stinging nettle family Urticaceae. His ability to make botany interesting surfaces as he states, "Some nettles have nasty personalities because of stinging hairs, Mother Nature's hypodermic needles. These plants inject a solution into the skin that burns, itches, or sometimes causes paralysis, or sometimes even death." What is actually in these hairs remains a mystery, but Woodland and two professors at Washington University in St. Louis, Missouri, intend to solve that mystery, maybe in another year or two. At both campuses they are growing from seeds all kinds of nettle plants, including the stinging tree of Southeast Asia and northern Australia (*Dendrocnide*), which has caused death in animals and people. Asked where he would dare grow such a tree, he smiles enigmatically and says, "In an isolated area."

Perhaps with a name like Woodland it is no wonder this professor thoroughly enjoys his subject and transmits his enthusiasm to students. His love of nature is also expressed by the home he and his family are building, particularly the attached green-

house and the location—off Long Lake Road, overlooking Woodland Lake, surrounded by trees.

Two other faculty members, Luanne Bauer and David Swaine, are building homes in the same area. Dennis Woodland, the good neighbor, provides much tangible help, as well as encouragement. Rona Swaine says, "When electricians came recently to hook us up to the electric lines, they drove heavy equipment in over the parking area I had raked out, and it would have taken me hours to smooth it out again. But while I wasn't there, Dennis came out with his little tractor and smoothed it all out. He doesn't just talk about being helpful; he just does it."

He finds time for neighborliness in spite of many personal interests. "I'm a philatelist," Woodland volunteers. "I also enjoy hiking, bike riding, and other outdoor activi-

Woodland would like to see Andrews and its surrounding area designated as a botanical garden . . .

ties like white-water rafting, skiing, and chopping wood."

His wife Betty, a hiker but no white-water rafter, is known for her musical ability and soft-spoken manner. She juggles five jobs besides homemaking: organist, St. Joseph Congregational Church; voice instructor, Lake Michigan College; private piano teacher, Ruth Murdoch Elementary School; voice instructor, Andrews music department; and D.Mus. student in voice and organ performance, Indiana University at Bloomington. Daughter Cherie, an accom-

plished musician in her own right, spent part of last summer at Interlochen School of the Arts on a scholarship and is now a junior at Andrews Academy. Heather, a fourth-grader, completes the family.

Woodland was a natural to lead the discussion at faculty-lounge Sabbath School when the fundamental belief of stewardship was recently studied. He challenged the class: "Our fundamental belief on stewardship doesn't go far enough—it's empty. We generally talk about stewardship only of money and time, but what about how we treat our natural environment, God's creation? Some environmentalists blame Christians for the condition of the world, charging that their attitude is 'Jesus is coming; why take care of it?'"

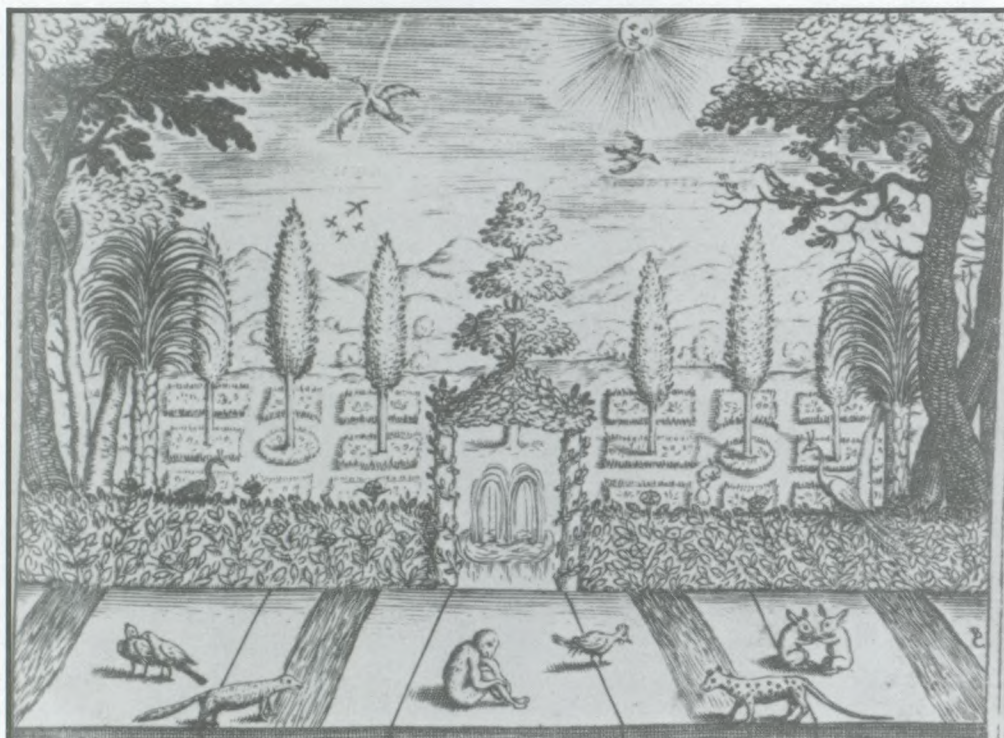
According to Woodland, "Environmental thinking really hasn't penetrated our own Christian ethic. We take our kids to Sarrett and Fernwood [local nature centers], but we don't join, and we don't make contributions because it's Sabbath. But we'll bring busloads of Pathfinders and Sabbath School children so they can learn to enjoy nature."

He proposed: 1) In the Old Testament, nature and God are closely intertwined. 2) The biblical record doesn't give humanity the right to exploit creation selfishly. 3) The work of Christ's redemption applies also to creation—restoring the broken relation. 4) The resurrection of Christ's body renews our body *and* creation—it finally overcomes the effects of sin.

Dennis Woodland is doing his part to make biologists out of a lot of us here at Andrews.

Madeline S. Johnston is a secretary in the department of world mission at Andrews University and a free-lance writer.

Recreating the Garden of Eden



In a book by G. B. Andreini published in 1617, the Garden of Eden is illustrated as a typical enclosed and formal garden of the period, with a variety of wild animals waiting just outside the gate.

and More

by Dennis Woodland

During the Middle Ages most Europeans believed that the human race had originated in a garden Paradise filled with trees, shrubs and flowers. The exact location of this Paradise garden was not known, but it was thought to have been located in some warm climate. When the great exploratory voyages failed to discover this garden in the New World and the East Indies, European thought changed from trying to find the original "Garden of Eden" to reconstructing what the original garden might have been like. It was the attempt to answer this question that led to the development of the first truly botanic gardens in Europe.

Many people have the misconception that

a botanical garden is a place to "go and see flowers in bloom." The famous Butchart Gardens near Victoria, British Columbia, Canada, is a good example of a flower garden: an assemblage of flowers arranged for their aesthetic beauty. But a botanical garden is much more than that.

A botanical garden is an area set aside and maintained to play major roles and purposes in society and cultures. At least five objectives are undertaken by botanical gardens:

1. Botanical gardens were established for comparative research studies of plants from various parts of the world. The plants are either living or preserved as pressed and dried specimens (called herbarium specimens).

2. Applied or economic botany can be practiced. Plants which might have value as food crops, for medicinal uses or for some other human use can be grown, acclimatized, hybridized and tested. Following extensive study the plants can then be released. For example, Philip Miller brought cotton seed in 1732 from the Chelsea Garden in London to Georgia. Various rubber tree species from Brazil and the Americas were introduced to Singapore and then to Malaysia via the Singapore Botanic Gardens. And tea was introduced into India via the Calcutta Botanic Garden.

3. Botanical gardens have provided a horticultural service. By service, I mean the collection, selection, hybridization and introduction into the retail market of many new and improved kinds of ornamental plants. For example, in recent years new cultivars (incorrectly called varieties by many nurserymen) of lilacs, azaleas, and witch hazel have been provided for the retail market.

When the great exploratory voyages failed to discover this garden . . . , European thought changed from trying to find the original "Garden of Eden" to reconstructing what it might have been like.

Dawn redwood from China is now being made available in many parts of the United States.

4. Botanical gardens have become centers of botanical education. Some of the great gardens such as Brooklyn, Edinburgh and Kew have schools associated with them where conservation, landscape design, taxonomy, horticulture techniques and management are taught.

5. Possibly the most important objective today, is the role botanical gardens play in conservation, species preservation and the maintenance of endangered plants and gene pools. With greater pressure being exerted on oceanic islands, Mediterranean climates and tropical rain forests by increased human population, habitat destruction and massive plant collection for illicit trade, it is estimated that as many as 10 percent of the world's flora will be on the verge of extinction by the year 2000. The Center for Plant Preservation, headquartered at the Arnold Arboretum of Harvard University, and 19 other U.S. botanical gardens are attempting to preserve and grow the approximately 2,000 endangered species found in the United States. Many have economic potential.

What economic potential do endangered species have? For example, two recently discovered rare plants from the Amazon rain forest have tooth decay preventive attributes; and a rare plant in China has been shown to improve the immune system in experimental animals and might be helpful in the treatment of AIDS.

A Long and Colorful History

Gardens have existed in China, Egypt and India since the days of the first recorded records. These gardens were not botanical

gardens in the true sense of the word, but existed for growing food, herbs, ornamentals and for reasons of aesthetics, religion and status. The famous "hanging gardens" of Babylon were built for the latter reasons. Theophrastus, the "father of botany," had a garden attached to his school near Athens. This garden had been given to him by his famous teacher Aristotle.

The first gardens in Europe were constructed during Roman times and devoted to growing medicinal plants. During the medieval times of the eighth century, monastic gardens originated to enhance the medical training in the monasteries. The Papal physic garden begun in the 1400s was one of these early famous gardens.

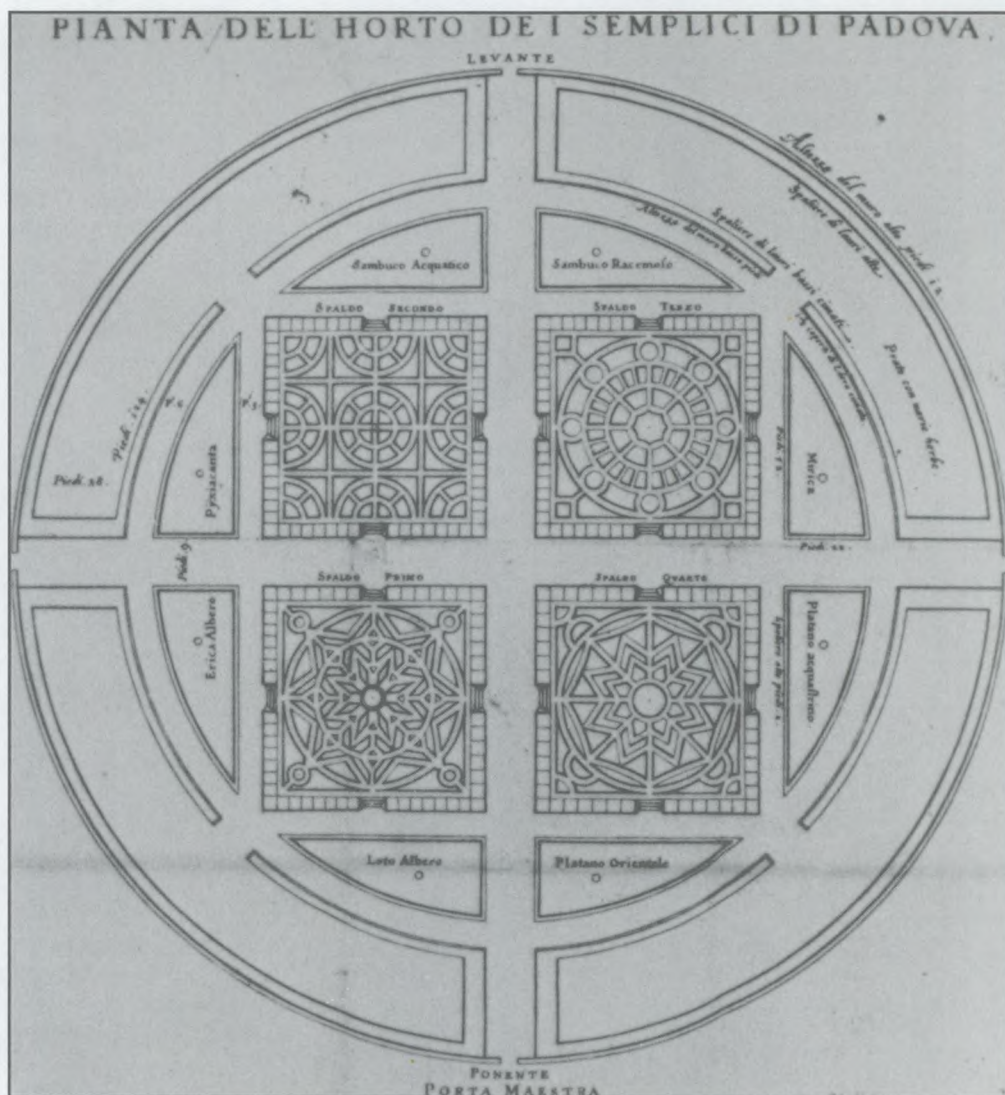
The origin of the modern, botanical garden can be attributed to the Italians. The first garden was founded in Padua in 1545. This claim is not without question for some have stated that the garden at Pisa is older by two years. Other gardens in Europe and Asia soon followed, for example: Florence (1545); Oxford, England (1621); Paris, France (1635); Berlin, West Germany (1646); Tokyo, Japan (1684).

The early botanical gardens were constructed along very formal plans. In the mind of the designer this was "bringing the fallen world back into an hierarchical order." It was believed that the disorder of nature was the result of the first parents' sin, and it was man's duty to bring order out of chaos. The gardens were relatively small with close rectangular beds bordered by brick and stone edges or surrounded by iron railings or well-clipped hedges. Archways, arbors, fountains and paths were positioned to portray some meaning which the designer held about the "original garden Paradise."

The founding of the early British gardens in the 17th century brought a revolutionary change in design. For the first time the grounds were larger in size and laid out in more natural, open designs with curving flower beds, grassy vistas, areas devoted to various types of plants and collections from specific geographical regions. The artistic design of these gardens so appealed to European botanists of this period that almost all new gardens were founded using this natural, less restrictive concept.

"Kew Gardens": The Finest in the World

The Royal Botanic Gardens located just outside London, England incorporates this natural, less restrictive concept. "Kew Gardens," as it is affectionately known to the English, is without question the finest botanical garden and botanical research and resource center in the world. It originated in 1759 when Augusta, Dowager Princess of Wales, the widow of Fredrick, Prince of Wales, commissioned a small nine acre (3.5 ha) garden to be constructed south of the present Orangery. It was later enlarged by George III. When the garden was obtained by the nation in 1841, its first official director, Sir William J. Hooker, expanded its size to over 300 acres (120 ha), founded the library and herbarium, and established the Museum of Economic Botany. In the 1800s



The first modern botanical garden was founded in Padua, Italy in 1545. Its very formal design symbolized "bringing the fallen world back into an hierarchical order."



In England's "Kew Gardens," this view from the Pagoda looking down through the heather garden is a typical design concept used by today's botanical gardens, which emphasize natural vistas.



Kew's new Princess of Wales Conservatory, roughly diamond-shaped in plan and partly underground, was designed to be economical to maintain and to allow for more exciting displays.



The New York Botanical Garden is to North America what "Kew Gardens" is to England.

the grounds around Kew Palace and Queen Charlotte's Cottage were added.

Even though the extensive gardens, arboretum and live plant collections in magnificent Victorian and modern conservatories are interesting and beautiful to view, it is the scientific resources present and the research and education which go on at Kew that make it the premier botanical garden. The massive number of collections of living and preserved plant material form the basis for studies in plant anatomy, biochemistry, conservation, cytogenetics, horticulture, landscape planning, physiology and taxonomy.

The living collections are most diverse with 351 families, and over 28,000 species growing successfully in the garden. The number of individually maintained entries is over 89,000. Every day plant material leaves Kew in the form of seeds, cuttings and whole plants for many parts of the world.

Tropical plants are maintained indoors in several display houses including the Filmy Fern House, Palm House, the new Princess of Wales Conservatory (opened in 1987) and the Temperate House. Completed in 1981, the Alpine House utilizes a refrigerated system, which permits the cultivation of species from equatorial mountains and high latitudes.

There is a wealth of botanical art, 200,000 botanical illustrations and sketches of outstanding beauty in collections throughout the Royal Botanic Gardens.

The 70,000 item collection of economic botany, first put on public display by Sir William Hooker in 1847, is now housed in several buildings in the Royal Botanic Gardens grounds.

Today the herbarium, established in 1852, has almost 6 million preserved specimens and is adding between 50,000 and 70,000 more each year to the collection from all over the world. There are over 275,000 original type specimens from which different species of plants were named. These specimens, along with the living collections in the garden, have provided the major basis for more than 30,000 new species described and named by botanists working at Kew since its founding.

With 750,000 items, Kew's library is the world's largest collection of botanical

books, journals, pamphlets, illustrations and maps.

Kew Gardens and its staff are responsible for publishing many journals, books, floras, articles and monographs about plants. The Conservation Unit is now providing a computer data bank and information ("Red Book") on the international status of plant conservation with regard to endangered and threatened species.

Recently a foreign botanist, on leaving the Royal Botanic Gardens was heard to remark: "Where would our knowledge of plants be today if it were not for Kew Gardens?" The answer? Much, much poorer!

Today more and more tourists are also finding that their trip to London would not have been complete without an afternoon spent visiting Kew Gardens.

New York Botanical Garden: A World-class Resource Center

A second botanical garden example is found here in the United States: the New York Botanical Garden in the Bronx of New York City. The establishment of the garden was authorized by the state legislature in 1891. Today it is operated as a private cor-

To the Christian, a walk through a botanical garden should be an exciting, rewarding experience.

poration with some support from both the city and the state of New York.

The New York Botanical Garden is not just a garden in a large urban area but a botanical resource center like Kew Gardens. The garden covers 250 acres (100 ha) in the heart of the city along the Bronx River. Its 15,000 species include a large rhododendron and azalea collection. A strong emphasis by garden staff on the Neotropics can be seen in the Enid A. Haupt Conservatory complex.

The botanical research emphasis of the New York garden covers many areas of botany, and many famous botanists have been,

and are, associated with the garden. In recent years the garden has become a major center for studying economic botany in North America.

Its herbarium is a worldwide collection of over 5 million specimens with emphasis on the flora of the New World. The 90,000 specimens being added each year make it one of the fastest growing collections anywhere. The herbarium has the most active loan program in the world, lending more than 50,000 specimens a year for study.

The world-class library and botanical resource center houses more than 200,000 volumes, over 500,000 items including pamphlets, photographs, botanical prints, letters, etc.

In 1971 the 1,945 acre (778 ha) Mary Flagler Cary Arboretum at Millbrook, N.Y., was added to the jurisdiction of the garden. Here are located an ecology education program, display gardens, and collections of woody plants from temperate North America and Asia.

The New York Botanical Garden is to North America what Kew Gardens is to England. A similar question could be asked of this garden: Where would our knowledge of North American botany be today if it were not for the New York Botanical Garden? Answer? Much, much poorer!

To the Christian, a walk through a botanical garden should be an exciting, rewarding experience. It is here that a person can see the great diversity expressed by the Creator in the botanical world. Here, also, the Christian can learn that stewardship is more than what one does with time and material goods. Stewardship means caring for the organisms of God's Creation for the benefit of all humankind. This is the essence of true Christianity. This is also one of the goals of the modern botanical gardens.

Dennis Woodland is professor of botany at Andrews University.

A Hands-on Learning Method

Undergraduate research provides the missing link between the classroom and the future profession.

by David Yeagley

David Zacharias led me into a dimly lit room dominated by a high-tech device bristling with knobs and switches. "This is the scanning electron microscope," he said. Swinging a chair around in front of it, he placed a prepared specimen into the chamber of the scope.

In a few minutes sufficient vacuum in the chamber was achieved and a green indicator light gave the go-ahead for operations. With a final check of the instruments Zacharias pressed a button sending a beam of electrons showering onto the specimen.

"The first few times I used this microscope, it was almost a religious experience for me," Zacharias said as the small monitor screen came to life on the control panel, revealing the image of a feather. Magnifying the image thousands of times, he zoomed in on a tiny wisp of the feather, which now looked as big as a tree branch. Deftly manipulating the controls, he maneuvered the microscope over the surface of the feather, peering into the tiniest details of its structure.

The electron microscope was a key piece of equipment used in the research Zacharias participated in this past summer. "The research project was a comparative study between starlings, which mimic the songs of other birds, and house sparrows, which don't," David explained. "Using this microscope I took micrographs of the tiny inner ears of both birds hoping to find characteristics in the inner ear of mimicking birds that would distinguish them from other birds."

As I listened to Zacharias describe his role in the project, it was easy to forget with whom I was speaking. This was not a seasoned biology professor at a large university, but rather a senior biology major at Andrews and an undergraduate assistant in a research project being conducted by Vernon De Herrera, a biology graduate student, and Asa Thoresen, professor of biology.

Zacharias is one of the many Andrews undergraduate students who have participated in student research on and off campus over the past year. Through summer internships, co-op programs and on-campus research work, many students, majoring in the sciences have been provided with the missing link between the classroom and the professional world—hands-on research in a professional setting.

In the past several years, students in biology, chemistry and physics have not only been involved in research on campus but have participated in research in places like the Mayo Clinic, Dow Chemical, Loma Linda University, Brown University, Argonne National Laboratories, Whirlpool Corporation, The Upjohn Company, and Wright State University. This research has not only thrust them to the outer limits of their ability, but



Assisting with research involving the inner ears of birds, David Zacharias used the scanning electron microscope. Contributions toward the purchase of this microscope were made by the Class of '78.

has put them on the cutting edge of their individual fields.

"Research on the undergraduate level allows students to become more professional and enables them to interact with other scientists on a personal level," says Robert Wilkins, professor of chemistry. "It is this interaction which helps them to become mature both in their field of study and as individuals."

Participants in research projects both on and off campus may receive academic credit for their work either through their department or through the Honors Program.

***"Research on the undergraduate level allows students to become more professional and enables them to interact with other scientists on a personal level."*—Robert Wilkins**

Many students also receive financial support during their research either in the form of a salary or a stipend to cover living expenses. These are funded either by the off-campus organization they are working for or by the University.

According to John Stout, chair of the biology department, research opportunities are available on both the undergraduate and graduate levels. "Research is an option for undergraduates, although it is strongly advised. Often these students work on a

research team with a faculty member. Generally their research comes in smaller pieces and has less depth than graduate work," says Stout.

"For graduate students in the biology department, research in an area of their choice is a requirement. The results of their research are to be reported in a master's thesis. Their research is much more independent than undergraduate work and has less faculty involvement," adds Stout.

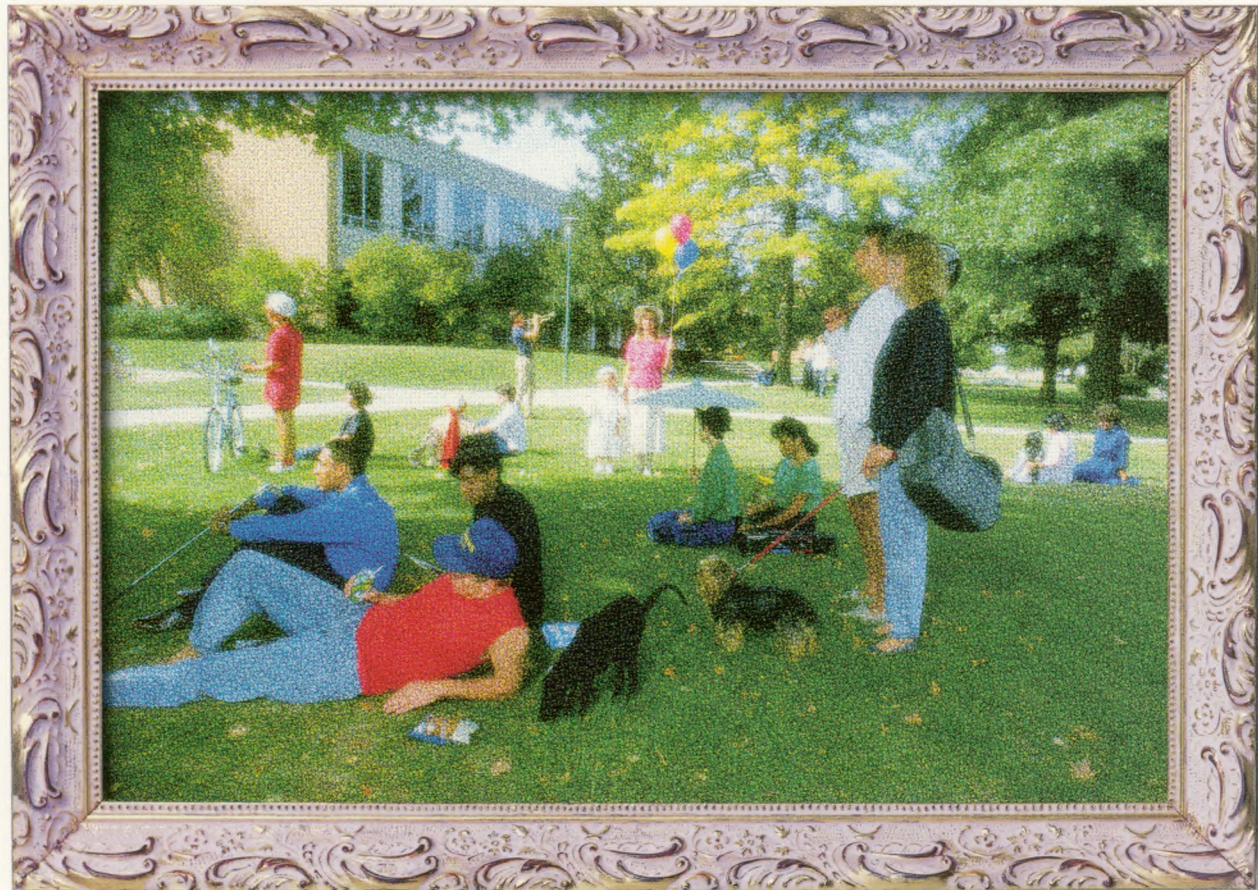
Students who have done research on either academic level are a jump ahead of other students in the field. "The first thing an employer wants to know in an interview is what experience the person has had," says Wilkins. "Allowing students to be involved in actual research adds strength to their resume and increases their chances of securing a satisfying job."

It is, however, the research students themselves who make the most convincing argument for the advantages of the research program at Andrews.

Rick Cook, senior chemistry major, spent last summer at Argonne National Laboratories, in Argonne, Ill., doing research on the oxidation of plutonium(III) and 2,2'-bipyridine ruthenium(II). From this research Cook has authored two papers which have been submitted for publication.

For Cook, research was not a new experience. Previously, he had worked for one summer and part-time during two academic years at the Whirlpool Corporation in Benton Harbor. However, his research at Argonne gave him the opportunity to branch out from

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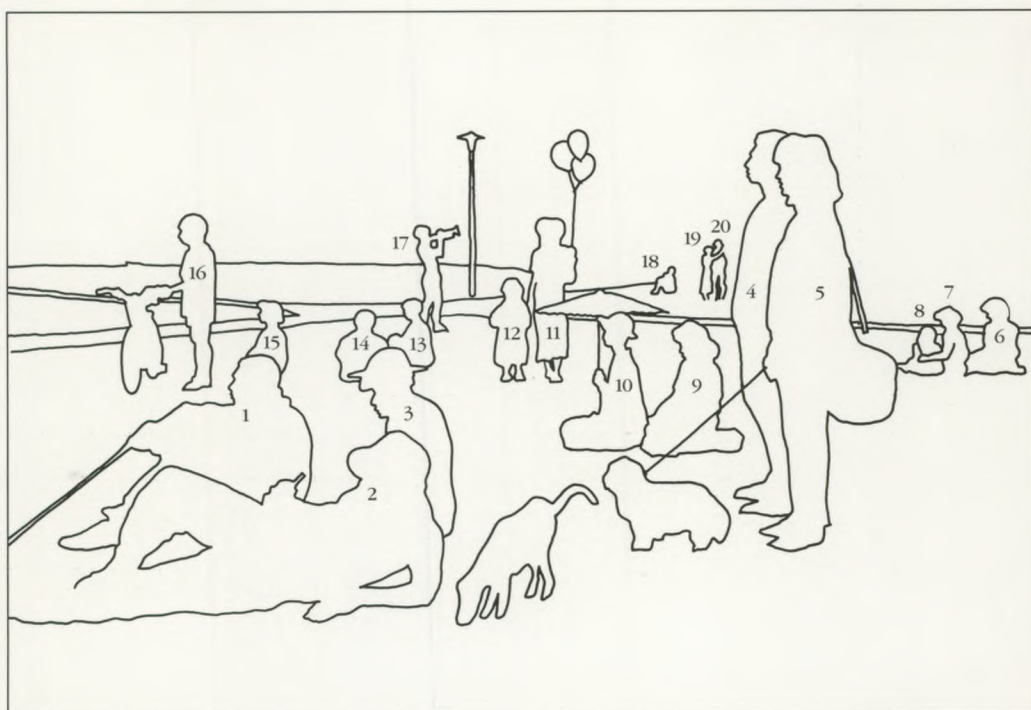
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Nutrition Science
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Office Systems Management
Administrative Assistant
Analysis and Design
Training and Development
Operations Engineering
Physical Education
Physical Education – Elem. & Sec. Ed.



An Afternoon on the Campus of Andrews University

On a September afternoon these Andrews University students were photographed by Donald May:

- 1 Mark Avery, Pennsylvania
- 2 Karl Weber, Michigan
- 3 Erika-Ellen Facey, New York
- 4 Ed Ivkov, Ontario
- 5 Kim Kuzma, California
- 6 Sylvia Rasi, Maryland
- 7 Rosanita Christo, India
- 8 Cheryl Christo, India
- 9 Sandra Araujo, Puerto Rico
- 10 Yvonne Terry, Colorado
- 11 Melissa Wallace, Montana
- 12 Heather Wallace, Montana
- 13 Allyn Craig, Washington
- 14 Tonya DiBiase, Michigan
- 15 Althea Ho, Ontario
- 16 Jodi Straszewski, Michigan
- 17 Craig van Rooyen, Michigan
- 18 David Yeagley, Texas
- 19 Kelly Kantor, Michigan
- 20 Scott Kuczma, Tennessee

Printing
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Aviation Technology (Maintenance)
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Computer Technology
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Apparel
Design and Production
Merchandising
Architectural Studies
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Arts and Crafts – Elem. Ed.
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Biology
Biophysics
Botany

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French
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General Science – Elem. & Sec. Ed.
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Graphics Management
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Health Science
History
Home Economics
Home Economics – Elem. Ed.
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Interiors
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Master of Music

Master of Science

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Interdisciplinary Studies
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Supervision

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Curriculum and Instruction
Educational Psychology
Religious Education

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Curriculum and Instruction
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Educational Psychology
Religious Education

Seventh-day Adventist Theological Seminary

Master of Arts (in Religion)

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Biblical-Theological Studies
(Affiliation and Extension
Programs)
Biblical and Cognate Languages
Church History
Intertestamental (Jewish) Studies
New Testament Studies
Old Testament Studies

Theological Studies
**Master of Arts
in Pastoral Ministry**

Master of Divinity

Master of Theology

Old Testament Studies
New Testament Studies
Theological Studies
Church History Studies
Christian Ministry Studies
Mission Studies

Doctor of Ministry

Doctor of Philosophy (in Religion)

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New Testament Studies
Theological Studies
Adventist Studies
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(graduate programs continued on back)

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Address _____

City _____ State _____ Zip _____

High school/academy _____ Year of graduation _____

Academic Interests _____

Andrews University

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- Viewbook
 Financial Information
 Summer Scholars Program
 Gifted Writers Workshop
 College Preparatory Seminar
 Other _____

Name _____ Phone (____) _____

Address _____

City _____ State _____ Zip _____

High school/academy _____ Year of graduation _____

Academic Interests _____



*Sunday Afternoon
on the Island of
La Grande Jatte*

Georges Seurat,
*Sunday Afternoon
on the Island of
La Grande Jatte*,
1884-86, oil on canvas,
207.6 x 308 cm,
Helen Birch Bartlett
Memorial Collection,
© 1988 The Art
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Near the ash-covered slopes of Mount St. Helens, Wash., Ted Robertson spent his summer studying the fossilization of eggs.

applied research to a more pure form of research.

While Cook admits that his graduate research will be most important to his career, he sees his internship at Argonne as a stepping stone in his experience. "It's helped me see what graduate research will be like. It's taught me how to approach basic research and has helped me solidify my interests in chemistry," he says.

Most importantly, it has affirmed his undergraduate study. "In class we have learned many theoretical equations. It's very easy to yawn and say, 'That's nice.' But when I was in an actual research situation, those theoretical equations became very helpful and practical to me many times," he admits.

Ted Robertson spent his summer with James Hayward, professor of biology, studying the fossilization of eggs. Their laboratory was a large gull colony in Puget Sound, near the ash-covered slopes of Mount St. Helens, Washington.

"This experience in research has helped me to see the demands of the field I'm going into," says Robertson, who is planning a career in molecular biology. "It introduced me to the challenges of field and lab work."

Robertson sees his experience in research as a very valuable asset for future educational experiences. "Undergraduate research is something you won't find in many other biology programs. But it is something which is looked very favorably upon by graduate schools," says Robertson.

While research is often a stepping stone to further education or a career in science, it may also serve as a turning point for some.

Joyce Siregar, senior chemistry major, attended Brown University in Rhode Island last summer for a ten-week co-op research program. She spent her time not in actual laboratory research but rather in front of a computer exploring the realms of theoretical chemistry.

"I really enjoyed the work, but I came to the realization that I couldn't do this for the rest of my life. I prefer working with people and this kind of research didn't give me that opportunity," she says. For this reason Siregar has decided to go into medicine.

But she doesn't believe that her research was a waste of her time. "This co-op program gave me a chance to go out and actually try research and see if I liked it. I



Working in the biochemistry lab, Rita Francis is researching the effect of exercise on fatty acid biosynthesis.

wouldn't have known if I hadn't tried it," she admits. "On top of that I'll have a much easier time getting accepted into graduate school with actual research on my resume."

For Rita Francis, Andrews biochemistry graduate and first-year biology graduate student under the direction of Ralph Scorpio, professor of chemistry, research has also been a turning point. Her research is a study in exercise physiology involving rats. "I'm hoping to determine how exercise affects the conversion of carbohydrates in rats," she explains.

For Francis, who conducted research at Loma Linda University and the Mayo Clinic, research has raised career questions. "I know I want to be involved in research, but at this point I'm not sure whether I want it to be in the area of biology or medicine."

For now, Francis will continue her study and is looking forward to having one of her papers published. "That will be a big plus for me in continuing my education no matter what field I go into," she states.

One of the key elements that will allow the continuation of student involvement in research is a strong financial base for research at Andrews.

With the formation of the Office of Scholarly Research this fall, continued opportunities for students to be involved in research in the future seem bright. "This new administrative office has been set up to promote and administer research funds," says Patricia Mutch, director of the Office of Scholarly Research and professor of nutrition. "An increase in funds available for research will mean an increase in faculty research, which in turn will provide students with jobs and experience in research."

"In the past much of our research has been supported by internal funds and department money. However, we can no



Rick Cook, who has worked one summer and part-time two academic years at Whirlpool Corporation, has submitted for publication two articles resulting from his last summer's research at Argonne National Laboratories.

longer depend on tuition money for research. Instead we need to seek outside funding through grants and philanthropy," says Mutch.

Already the program has proven to be worthwhile. Recently the biology department was invited to apply for a Howard Hughes Medical Institute grant for undergraduate science education. If the University is awarded this five-year grant, the fund would help pay for additional staff, equipment and student researchers in an interdisciplinary program in molecular biology and neurochemistry.

"The faculty involved have worked hard on preparing the proposal for the Hughes Foundation. We think it is competitive," says Mutch. "But we won't know anything until June."

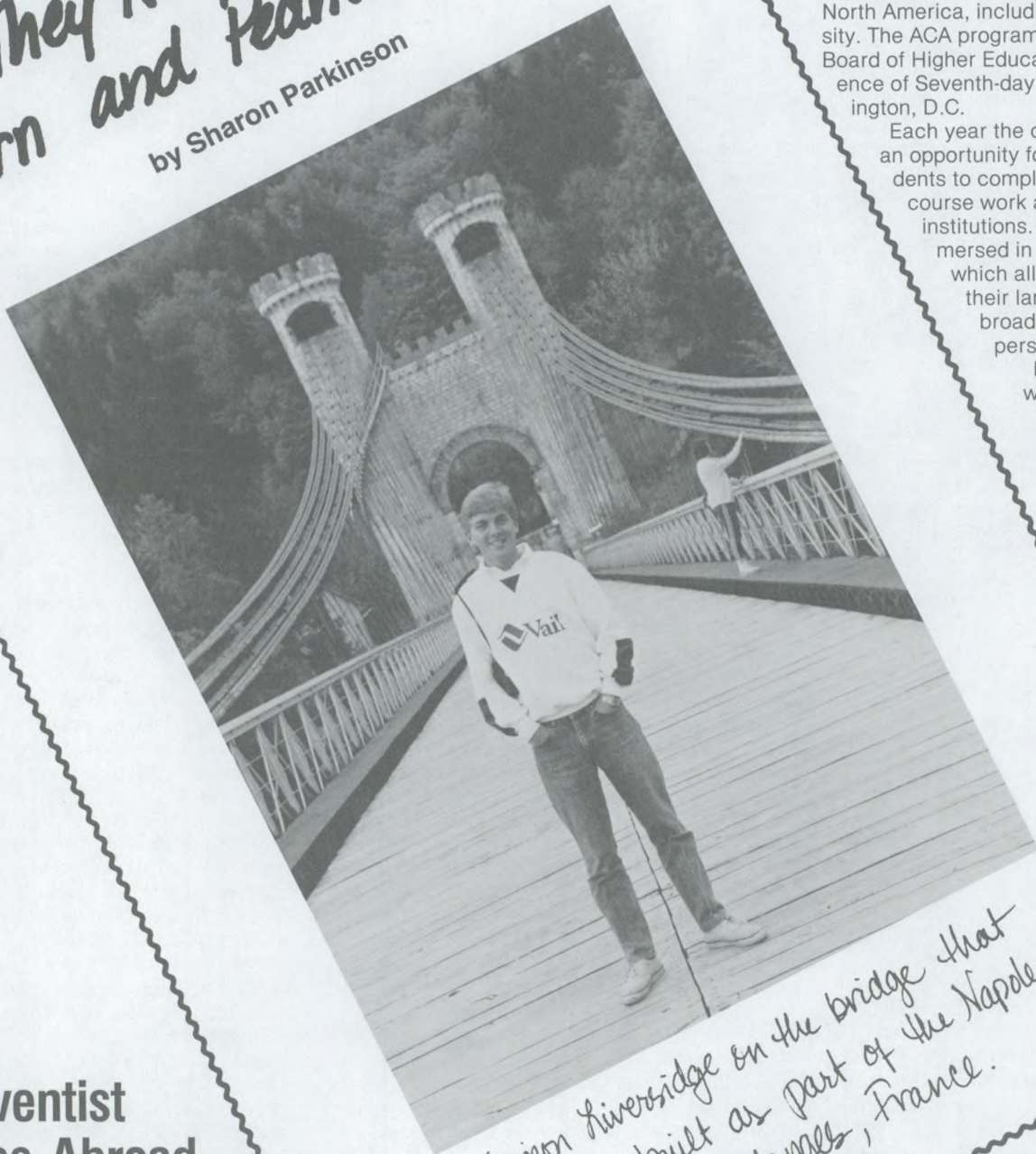
Andrews is well-known for the excellence of its teaching. But a university is also a place where research is important. Obtaining more funds for research will allow the University to expand its research commitment and opportunities.

For students like David Zacharias, Rick Cook, Ted Robertson, Rita Francis and other students who have committed themselves to expanding their minds through research, that commitment couldn't be a better investment. "After all," agrees Mutch, "it is very appropriate for us as Christians to be involved in research. Part of our Christian experience is seeking greater knowledge. And," she concludes, "through research in God's world of nature we can gain a deeper understanding of Him."

David Yeagley, first year M.Div. student at the Seventh-day Adventist Theological Seminary, is a newswriter at the Andrews University Public Relations Office.

*Adventure? Yes.
But They Never Promised
Popcorn and Peanut Butter*

by Sharon Parkinson



*Simon Riversidge on the bridge that
Napoleon built as part of the Napoleon
Road near Collonges, France.*

"On Sabbath afternoons a group of us from Collonges usually hiked up the side of the Saleve. On those clear days, we could see the long stretch of mountains which form the chain of French Alps, especially Mount Blanc which is the tallest mountain."—Tonya DiBiase

Tonya DiBiase is a spirited Andrews senior working toward graduation with a major in French. In 1985, she spent the academic year studying at the Institut Adventiste du Saleve in Collonges, France. Her year of study in France was arranged through Adventist Colleges Abroad (ACA).

ACA is a consortium of thirteen Seventh-day Adventist colleges and universities in North America, including Andrews University. The ACA program is headed by the Board of Higher Education, General Conference of Seventh-day Adventists in Washington, D.C.

Each year the consortium provides an opportunity for undergraduate students to complete foreign language course work at affiliated European institutions. Students are immersed in a program of study which allows them to develop their language skills while broadening their cultural perspectives.

Not all of the students who participate in the ACA program major in modern languages.

ACA also accepts students from other disciplines if they

**Adventist
Colleges Abroad
Program**

have completed at least one year of foreign language study at the secondary or college level.

The European affiliate institutions involved in the ACA program are: Colegio Adventista de Sagunto in Spain, Seminaire Schloss Bogenhofen in Austria, and Institut Adventiste du Saleve in France.

ACA has correlated the language sequences of the international institutions with the language sequences of North American colleges and universities. This makes it easier for students to transfer the credits they earn in Europe.

Karen Holman, a sophomore Spanish major, remembers her year abroad as "one of the best years of my life. Sagunto has a warm, scenic campus," she says. Holman arrived at Sagunto in August, 1986, after taking a European summer tour with her parents.

"There were no other American students to lean on," she says. "My parents offered to pay for my trip back home if I chose not to stay there." Rather than returning home, Holman chose to stick it out, and now she looks upon the experience favorably.

Many of the students who have participated in the ACA program agree that the first few weeks abroad were definitely the toughest. Getting adjusted to a new climate, new surroundings, and functioning without the aid of the family support system was quite difficult.

"During the first weeks the distance factor really sets in," says Holman. "You're

Not all of the students who participate in the ACA program major in modern languages.

away from your parents, everything is so different from what you're used to, and you can't just pick up the phone anytime you want to call home," she says. Communicating by mail can also be rather slow. Letters normally take three to four weeks coming and going.

Throughout the year, professors in the modern languages department at Andrews try to correspond regularly with their students overseas. "We usually write the students several letters and mail them copies of the *Student Movement*," says Wolfgang Kunze, department chair. These mailings serve to encourage the students, while keeping them up-to-date with the happenings at the local campus.



Karen Holman & Rhonda Motschlieder at the Acropolis in Athens, Greece. Who are those masked men anyway? Hmmm... That's another story!



This beautiful castle is only a 5 minute walk from "Bogey" (Bogenhofen, Austria).



Jill Patterson and Tonya DiBiase in Annecy, an adorable mountain town in France. The brasserie is a small French cafe.



The "roomies" Christina from Brazil, Wilma from Czechoslovakia and Sylvia Chavez from Andrews!

Wholly Toledo,
Spain - the
Karens (Quackenbush &
Holman) and Rhonda
Motschieder look
soo comfortable they
couldn't possibly be
homesick !!?



"I really liked Sagunto; the people were very friendly," says Cliff Sweet, a music major who went there in 1987. "One of my roommates was a real terror—a tiny, blonde, German guy," he smirks. "The first day I got there he tried to super glue my fingers together."

Sweet says one of the major differences he had to get used to was living with more than one roommate. Sagunto, Bogenhofen, and Collonges are smaller than most North American Adventist colleges and universities. Since these institutions educate students within their respective countries as well as students from other countries, housing space is limited.

Generally, students are administered a Language Proficiency Placement Examination at the beginning of the year. This proficiency examination determines which level of course work the student will be able to complete. At Bogenhofen and Sagunto, students are placed in one of three language levels: beginning, intermediate or advanced. Collonges offers four language levels, and all course work is taught in the native language.

At the international schools, students and teachers empathize with the ACA students who sometimes have trouble overcoming the language barrier; so they try to speak slowly, often repeating phrases so that the foreign students can understand them. It usually takes most ACA students two to three months to overcome the language barrier. After this they can work on building vocabulary and fluidity.

"I knew a fair amount of French before I arrived at Collonges," says Simon Liversidge, a senior psychology major. "But the first few weeks I really had to concentrate hard to catch two or three words out of a sentence just so I could figure out the meaning." Liversidge says that after sitting through four hours of classes each day, he developed headaches.

When they were not studying for classes, ACA students engaged in several extracurricular activities. "I was involved in three choirs at Sagunto," says Cliff Sweet. Sweet also remembers the times when he and a group of friends bought groceries and prepared their favorite foods in the women's kitchenette.

"At Collonges we organized nightly aerobics classes," says Tonya DiBiase. "The French girls would come in and ask us 'what are you crazy people doing?'" Each year the female students also take charge of planning the Girl's Banquet. DiBiase says, "we put together a production of *Les Miserables*, creating all of the backdrops and costumes."

"Sitting in the dormitory, talking with my Brazilian, Swiss, and Czechoslovakian friends was a lot of fun," says Sylvia Chavez, a two time veteran of Bogenhofen.

"Now, when I meet foreigners here who are struggling to learn English, I can empathize with them."—Sylvia Chavez

"Having such a mixture of many cultures in one room, and hearing all of the different languages was just great." Chavez plans to return to Bogenhofen this summer for a refresher course.

Family and friends were highest on the list of things ACA students missed most. But, students also missed the American foods they did not have easy access to in Europe. "I missed Doritos and Pop Tarts," says Karen Quackenbush, a sophomore who attended Sagunto in 1987. "I missed chocolate chip cookies, popcorn and peanut butter," says DiBiase.

Most of the students agreed that food preparation in the European schools was quite different from what they were used to at home. "The food at Sagunto was a big shock for me," says Holman. "The first

week I couldn't eat because I was so depressed." According to Holman, food preparation is more simple at Sagunto. They use no sauces or vegetarian meat substitutes and cook with lots of olive oil. "I loved the food at 'Bogey'," says Chavez. "It was natural and wholesome consisting of wheat, potatoes and vegetables." Perhaps Cliff Sweet sums it up best by saying, "There are ways to compensate for the differences in taste. We bought ketchup and put it on everything."

The ACA package includes several planned tours each year. These tours enhance classroom lectures by placing students in situations where practical use of the language is necessary. Since most of the tours are planned around holidays, students have several opportunities to experience traditional festivals.

"In Austria they have some pretty crazy customs," says Chavez. "On Krump night, which falls around Christmas," she explains, "someone dresses up like a demon and goes around playing tricks on people; sometimes they hit you over the head."

During holidays, Chavez and her friends from Bogenhofen visited nearly seventeen countries in Europe. "We really got to know Europe," she says. Her most memorable trip was the one to East Germany. Chavez says she made several friends there who changed her outlook on communist countries. Chavez still corresponds with her East German friends.

The experience of traveling and living in Europe for an entire year has taught many ACA students to be more sensitive towards people of other cultures. "American students must remind themselves that they are not in Europe to change things," says DiBiase.

"Now, when I meet foreigners here who are struggling to learn English, I can empathize with them," says Chavez.

Many students also feel they have developed greater maturity, independence and confidence as a result of spending the year abroad.

Sharon Parkinson is a junior majoring in public relations and business administration at Andrews University.

Sylvia Chavez
Models her
handmade
Austrian dirndl.



We came home, pigged out on USA goodies and returned to "Dear A.U." for more fun. This was the French College Bowl. From left: Denise Holder, Simon Liversidge, Sylvia Rasi, Allyn Craig and Dr. Philip Samaan.



This is Collonges. Tonya DiPrise dwarfed by the Saleve Mountain.

An Alumni Group for "Collonges" Attendees

Andrews sous Saleve is an Alumni group of twenty people based at Andrews University. The members of this group, which was started in Spring, 1987, are people who have attended Institut Adventiste du Saleve in Collonges, France. Some members of the group went to school in France as recently as last year, while others like Rebecca May, director of alumni affairs at Andrews University, attended Collonges in the early 1970s.

"The purpose of the group is to encourage everyone's talents in French language and culture," says May. "Andrews sous Saleve brings together people who share memories of the times they spent at Collonges."

Andrews sous Saleve also functions as a support group for students who are considering attending Collonges. "We include these students in our activities," says May. "Group members sit down and talk with these students because we want to help them capitalize on a wonderful experience." Members of the group offer practical advice on making travel arrangements, shopping and transferring funds. They tell students just what to expect.

Once the students go to Collonges, members of the group write them letters.

"At Christmas time we send them Christmas cards and care packages full of American foods which are difficult to find in France," says May.

In the past Andrews sous Saleve has planned several activities including Sabbath schools, vespers, and a College Bowl, during which participants were quizzed on French culture. On July 14, group members celebrated Bastille Day with a picnic. Last winter the group also made a cultural trip to the Chicago Art Institute to view paintings of Impressionist artists.

Andrews sous Saleve is currently working on some new projects. According to May, the group would like to circulate a newsletter. "We have also been working on plans for a reunion of former Collonges students nationwide," she said.

May would also like to see alumni groups started by former students of Bogenhofen, Sagunto, and Newbold College in England. Alumni who would be interested in contributing to these groups may write Rebecca May, Director of Alumni Affairs or call (616) 471-3591.

More Details About the A.C.A. Program

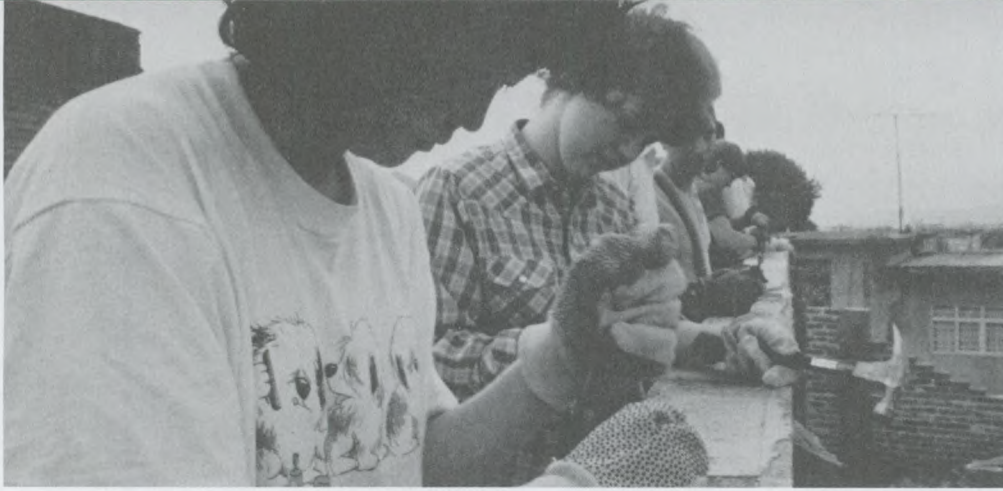
The sophomore year is recommended as the year one can derive the most benefits from the ACA program. By the time students reach their sophomore year, they should have attained the desired level of language competence.

The ACA program does not restrict freshmen from admission. Any student who has demonstrated above average scholarship during two years of secondary study, or one year of college study can also be admitted to the program. However, they may find the program more challenging.

The requirements for admission into the ACA program are: competence in a foreign language, a college GPA of 3.00 in the language and an overall 2.50 GPA. Students must also possess a high level of maturity and flexibility.

Applications for admission may be obtained by writing the Department of Modern Languages or the Admissions Office at Andrews University. A \$100 application fee will be charged for processing the form. This \$100 fee will be completely refunded if the applicant is not accepted into the program. Half of the fee will be refunded if the applicant decides to withdraw from the program before September 1, provided the applicant returns to their home institution that same year.

Financial arrangements can be made through the Andrews University financial aid office. ACA charges for one year abroad include: tuition, room and board, overhead costs of the ACA consortium, tours and travel arrangements, and health and accident insurance. Charges for the 1988-89 school year at Bogenhofen, Collonges and Sagunto are respectively, \$7,210, \$7,415, and \$7,100. Travel, passport and visa costs must be handled individually by the student.



Memoirs from a Mexican Maranatha

by Laurie Stankavich



For the Andrews students who go on mission projects sponsored by Maranatha Flights International, these short-term assignments etch vivid long-term memories. Among the University's selection of service opportunities ranging from afternoon jail bands to part-time jobs in Benton Harbor social service agencies to full student missionary stints, Maranatha trips alone offer students the intensity of foreign mission service with the convenience of a short-term commitment. Maranatha is two weeks of intense instruction about the world, about humanity, about commitment and about service.

For me, Maranatha offered the chance to return to the land of my birth, the country where I spent the first three months of my life. We landed in Mexico City one day shy of my 21st birthday. Our task was to build a new Seventh-day Adventist Church in Huauchinango, three hours out of Mexico City in the mountains of Puebla.

We got lost heading out of Mexico City. The four of us women—Gladys Pearson, Debbie Mosier, Hea Ran Chang and I—rode with the conference youth pastor. The eight men in our group had taken a public bus. After a number of shouted interchanges with taxi drivers, a police officer stopped us

and questioned the pastor. Apparently, carrying non-family members without a taxi permit is suspect in Mexico City. "Just smile at him," Gladys instructed us. After a short conversation between the officer and the pastor and some gesturing in our direction, the officer waved us on.

Just after dusk, the youth pastor pulled up in front of a small restaurant. We sat down and a waiter brought menus. We quickly recognized a problem. We couldn't read the menus, and the pastor couldn't translate them. But he was struck with a sudden inspiration. He ran out to the car and returned with a dictionary. We all ordered spaghetti, which tasted nothing like American spaghetti, and black beans and tortillas. I tried to explain why we couldn't eat the cheese or drink the water—a difficult concept to communicate in my tortured verbless Spanish. We ordered Cokes and then wondered what kind of light this shed on our health scruples. Hea Ran broke a glass and tried to pay for it, but the owner gave her another glass to keep as a souvenir instead.

We left the restaurant and drove on. Someone figured out how to ask, "How

Maranatha is two weeks of instruction about the world, about humanity, about commitment and about service.

much longer will it be?" and the pastor told us 30 minutes. About 30 minutes later, he told us 30 minutes again.

Finally, we could pick out lights below. Huauchinango, the pastor told us. The truck swooped downhill and turned onto a dirt road. We came to a stop in front of an unfinished two-story brick house. It was only 7:00 p.m. It seemed like we'd left Andrews a week ago.

Privacy was a problem. In Hea Ran's first sighting of the house where we stayed, she saw someone in silhouette behind the upstairs curtain, undressing. The only working bathroom had a shower curtain door and opened off the main room downstairs. However, the women had a moderately private room upstairs. We all had foam rubber mattresses to sleep on and an extra one to shove in the open door. We fell into bed that first night, exhausted.

They told us Mexico would be loud at night. We quickly agreed. Every thirty seconds a truck roared by below the hill, and trucks in Mexico seem to scorn mufflers. Dogs barked and a miscellaneous scratching wafted down from the rafters. Our second night in Mexico, the neighbors held some kind of fiesta all night long. Every ten minutes someone set off a firecracker and early in the morning, someone started singing a chant with a responsive chorus.

The first day the local pastor drove some of us to the site in a pickup. The girls sitting in the front seats were singing. The pastor listened and then invited us to sing at two of his churches on Sabbath. That night two

Author Laurie Stankavich writes candidly of her experiences when she joined a Maranatha Flights International mission project to build a church in Huauchinango, Mexico. Andrews student Emmanuel Nlo-Nlo (center photo) leads children in a song service.

impromptu singing groups evolved: a nine-member mixed group and a men's quartet. I was snared into the mixed-singing group despite my protestations about lack of talent.

Sabbath morning I woke too early because of the night-long fiesta and because I had a desperate need for the bathroom. I learned very quickly that one cannot give attention to a place, no matter how exotic, while hungry, sick, cold or while looking for a bathroom. In a strange place, one gives excessive thought to fundamental needs. I finally went downstairs to the bathroom and then dressed. No showers.

We climbed into the local pastor's pickup and drove to a nearby town where we sang at two churches. The pastor kept introducing more and more grandiose schemes involving our services. Perhaps a potluck? Perhaps a trip to the youth camp?

The pastor's name was Obdullio Santos. We simply called him "pastor," as he was introduced to us. A slender man with a broad grin, his idea of communication was to seize on a single English word, repeating it over and over. Without Matthew Davis, our former-missionary-kid translator, these were slow conversations. We later learned that Santos pastored 25 churches. One was so far into the mountains it required an overnight stay and could only be reached by foot.

Xicotepec, though, was his largest church. Emmanuel Nlo-Nlo preached the sermon that Sabbath. He was a graduate student at Andrews and from Cameroon, Central Africa. In Mexico, he attracted a lot of attention. Little boys followed him around in town, whispering and giggling, "negrito, negrito."

After church, we commissioned Matthew to ride in the front seat to monitor Pastor and keep us from agreeing to a potluck or an evangelistic series. In the end, we simply rejoined the rest of the group back at the house. That afternoon we visited some nearby lakes via the back of a cattle truck. Sunday we worked.

That Sunday, we poured cement for the church floor with the help of many of the church members. Some of us spent more time talking to the children than mixing cement. We asked them the names of things—nose, eyes, ears, feet, shoes. They produced an English workbook and asked

us the names of things in English. By the end of the day, we had a good vocabulary of mainstream body parts and could ask and answer, "How old are you?" The kids walked us home that evening. A little girl named Dianna held my hand and talked to me about how I should say, "I have rocks in my shoes."

We mixed cement much of the next week, until I began to renounce women's rights. Monday, I escaped and went with Matthew and Hea Ran to assist in the Vacation Bible School in Xicotepec. Afterwards, we went to the conference youth camp about two hours away. On the way back, I sat on Hea Ran and Matthew's laps with my head scrunched against the window. Both Matthew and Hea Ran had been battling colds, and Hea Ran told me privately she had decided against rural living. I assumed this included a resolution against mission service as well.

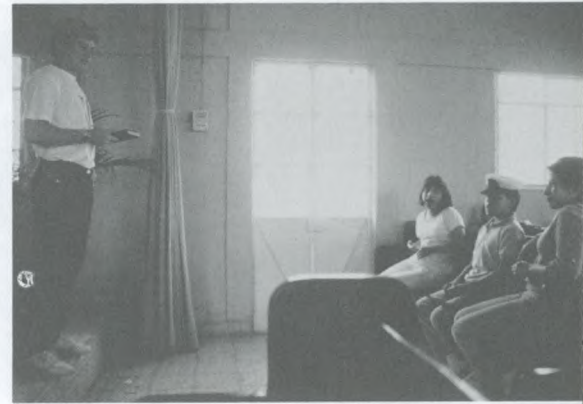
Christmas Eve the church was dedicated. The congregation crowded onto wooden benches. Under Pastor's officiation, the

We mixed cement much of the next week, until I began to renounce women's rights.

singing groups sang and an elder gave a brief message. Outside, fireworks exploded, children shouted and Christmas music blared out Spanish lyrics. Overhead, between the rafters of the unfinished roof, a star twinkled—a momentary reminder of the wise men's star, of peace on earth and of glory to God in the highest.

After the Christmas Eve dedication, we worked one more day, Friday, December 25. It didn't seem like Christmas. Debbie got sick, and I finished my last day of work back at the house with her. The next day we worshipped in the church.

That evening, church members gathered at the house where we stayed. The children gave us little gifts and hinted for gifts from us. I divested myself of all U.S. change and two pocket notebooks. After dark, someone hung a piñata from the upstairs windows. A



crowd gathered, cheering. We exchanged addresses with Mexican friends. There were hugs and tears. Good-byes.

In Mexico City, our guide never showed up and our tour schedule fell through. We didn't let it bother us. We walked about a mile to Pizza Hut and ordered real pizza.

We left for home two days later, landing at Chicago about five in the evening. The plane passed through a gray mist and emerged beneath the clouds. I looked down at the mounds of dirty snow piled along the runway. We were definitely home.

As soon as we returned, I applied to go as a student missionary, something I had decided to do while in Mexico.

Debbie also decided to go as a student missionary. She plans to teach English in Japan next year. Matthew Davis and John Taitano have made plans to go in the next couple of years.

I talked to Emmanuel Nlo-Nlo the other day. Why did you go on the Maranatha trip and what did you get out of it, I asked him. He talked about curiosity, travel, working with another culture, making new friends, and about his dream of starting a similar program when he returns to Cameroon.

The long-term effects of this trip may be interesting indeed.

When she wrote this article, Laurie Stankavich was a student newswriter for the Andrews University public relations office. She is presently serving as a student missionary in Taiwan.

The cooperation required to build a church also builds a bond between Maranatha volunteers and local residents (left).

Matthew Davis's Spanish, which he learned as a "missionary's kid," served him well when he spoke for worship (above).



Alumni News



Students Soo Kim and Russell Sails and Harry Taylor (below), president of the class of '34, contributed to the success of this year's phonathon.



Alumni Phonathon Tops \$65,000 Goal

More than 1,500 Andrews University alumni contributed nearly \$68,000 during the annual Alumni Phonathon held from Oct. 9 to 23, according to Rebecca May, director of alumni affairs.

"The phonathon was successful and ran smoother than last year's," says May. "Not only did we surpass our goal of \$65,000, but we also had the opportunity to make personal contact with thousands of our alumni."

May credits this success in part to two things. First, the 80 volunteer and paid student callers, who worked a total of 14 shifts, "did an excellent job," says May. Second, a computer system was used to keep individual caller records and totals constantly updated.

Money pledged during the phonathon will go toward a wide variety of campus funds and projects specified by the donors.

Alumni Hold Workshop At Solusi College

Andrews University alumni presented a Solusi College-sponsored workshop Aug. 17 to Sept. 1, for food service employees in Adventist schools and hospitals of Africa. Angeline Musvosvi (B.S.'84, M.A.'86), director of home economics at Solusi College in Zimbabwe, was program coordinator. Former Andrews professor Fonda Chaffee (1965-87), now professor of home economics at the University of Eastern Africa, Kenya, served as the workshop's associate director.

Guest lecturers included Ruth Kacelenga (A.S.'82, B.S.'83), director of food service, University of Eastern Africa, and Priscilla Gabi (A.S.'83), home economics teacher at the Bulawayo Adventist Secondary School in Zimbabwe. Gabi recently obtained a B.A. in home economics from the University of Zimbabwe.

Lectures in management were presented by Miweta Bina (M.B.A.'77), chairman of the business department at Solusi College.

Twenty-three of the 30 participants received certificates for completing the 15-day program. Topics included food selection, preparation, service, recipe standardization and menu making, sanitation, nutrition, and management of equipment, facilities and employees.

Solomon Mathema (B.A.'75, M.A.'76), educational director of the Zambesi Union in Zimbabwe, was the graduation speaker. The next workshop will be held at the University of Eastern Africa, Kenya, in 1989.

**Plan now to attend
Homecoming
Weekend
April 27 to 30**

Classnotes

1940s

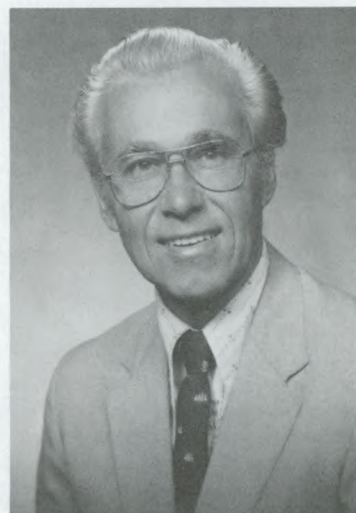
J. Byron Logan BA '44 retired from the Review & Herald in 1984. He has taken up his old hobby of woodworking. He has made several items of furniture for his three children and sold enough items to better equip his workshop. "With a cozy wood stove fire going on a wintry day, that beats the rocking chair, which I never have had much use for—yet."

Roscoe Swan BA '41, collaborating professor with the Loma Linda School of Business and Management, spent several months in the Far East during the summer of 1988 teaching graduate classes in management at several Adventist colleges and universities. His students were primarily administrators from Adventist institutions throughout the Far Eastern Division. Although officially retired, Roscoe continues to teach and also coordinates a Human Resources Management Workshop annually for Loma Linda University School of Business and Management. Before retirement his denominational employment included administrative responsibilities and teaching positions on the secondary and college levels.

R. Kenneth Wolfer, Sr. BA '47 is a retired physician/professor living in Ooltewah, Tenn., with his wife, Shirley. Kenneth has been active in his profession and in his service to the Adventist church. He and his wife have three children.

1950s

Jan W. Kuzma BA '59 is chairman of biostatistics at Loma Linda University School of Public Health. He has been elected as the chairman of



Jan W. Kuzma (BA '59)

the Statistics Section of the American Public Health Association (APHA). Jan was one of three people honored with a 1988 APHA Statistics Section Recognition Awards in November 1988. This award is given in recognition of a high level of achievement and for contributions to the field of statistics.

1960s

Gloria R. Andrews BS '69 has been promoted to assistant vice president at The Huntington National Bank in Columbus, Ohio. Gloria joined The Huntington in 1985. She also serves on the boards of the Alvis House and Center Stage Theater, and is active in the We Care Project and the United Negro College Fund.

James I. McNeill BA '68, chairman of the department of ophthalmology at Loma Linda University, performed his one-thousandth corneal transplant in August 1988.

1970s

Gorden BA '72 MDiv '75 DMin '87 and **Cheryl (Brown) Doss** BS '72 and their children, Kristi and Richard, returned to Lakeview Seminary, Malawi, Africa, in August 1987. Gorden teaches, manages the school finances, supervises construction of new buildings and does campus maintenance. Cheryl has turned from nursing to teaching, with her own classroom of two students. She manages her home, a large garden, and teaches classes for the ministerial student wives. Previously Gorden served as ministerial intern in Wichita, Kansas. After finishing the MDiv program the Dosses were called to Malawi where Gorden had grown up. Arriving in Malawi in 1976, Gorden served in different Field and Union depart-



Gloria R. Andrews (BS '69)

ments for three years while Cheryl supervised six bush clinics. In 1979 they coordinated the construction and development of a new ministerial school, Lakeview Seminary. When it opened in 1980 Gorden served as teacher and business manager. From 1982-86 he studied at Andrews and worked as a pastor for the Florida Conference.

Douglas Griffin MDiv '79 is pursuing a doctor of philosophy degree in medicine and religion at the Catholic University of America in addition to pastoring the Geneva Presbyterian Church in Rockville, Md. He also serves as chaplain of the Asbury Methodist Village in Gaithersburg. Doug's wife, Susan (Frey), is a capacity planner for the U.S. Department of Energy in Washington, D.C. The Griffins have one son, Jason.

Henri Kempf MA '71 is a pastor for the North French Conference in Dijon, France. "After I left Andrews I went back to West Africa to pioneer the work in Upper Volta, now Bukina-Faso. Before coming to Andrews I had opened the secondary school at Bouake, Ivory Coast and worked in Togo." Henri's wife, **Hildegarde** (former student) is a secretary. They have two children, Etienne and Anny.

Mervyn R. Joseph BMus '76 MA '77 teaches band and wind instruments, music appreciation and history at Miami Union Academy. He is married and has two children.

Paul Emery Lange BSN '73 lives in Pueblo, Colo. He is in nursing administration, serving as department head of orthopedics and neurology at St. Mary-Corwin Hospital and Regional Medical & Health Center. His wife, **Jennifer (Streeter)** BSN '73, is a nurse educator at the same facility. Paul is active in his church and

also working on a master of business administration degree at University of Southern Colorado. The Langes have four children, Patricia, Jason, Jonathan and Sara.

Al Long MA '73 is executive secretary for the Georgia-Cumberland Conference. Al previously has 13 years experience in mission service in Africa. He has also served the church in Washington, Oregon and in the Gulf States. His wife, Myrna (Shultz), is a public health nurse for the state of Georgia and is the program director for genetics. The Longs have two children, Valerie and Kevin.

Curtis G. Wiltse MA '72 is senior statistician at Eli Lilly & Co. in Indianapolis, Ind. His wife, **Susan** BA '71, is a homemaker. The Wiltse's have one daughter, Heather, seven years old.

1980s

Michael J. Bauer MDiv '85 was ordained in May 1987 and remains active in preaching and church programming in addition to being a medical student at Loma Linda University. He started a new SDA church in Rancho Cucamonga, Calif., in 1986. Michael's wife, Carol (Furr) is a graduate student in marriage and family therapy.

James Bunch MDiv '84 will receive a master of business administration from the University of California at Los Angeles in June 1989.

Ulysses M. Carbajal MTh '81 received the Most Outstanding Physician award from the Philippine Medical Society of Southern California during their ninth Biennial Inaugural Ball in April 1988. Ulysses also had the honor of directing two choirs at the annual convention of

the Association of Philippine Physicians in America in singing "APPA, Mabuhay!", a piece he was commissioned to prepare for this event. He has participated in several other professional congresses and does charity work in clinics in the Philippines. He serves as associate head elder of the Central Filipino Church in Los Angeles, a church he helped organize in 1955-56.

Sheila Chartier Fullmer BS '83 MA '88 is a marriage and family therapist for Riverwood Community Health Center in Niles, Mich. She and her husband, Mark, live in Dowagiac, Mich.

Arlene Grant BArch '87 is an assistant architect with Burns & McDonnell Engineers-Architects-Consultants in Kansas City, Mo. She will be working on architectural detailing.

Sharon Tolhurst MMus '85 is head of music at Salvatorian College, a Catholic Boys School, in Harrow Weald, England. She and thirty 14-year-old boys were chosen to be part of the Education Project organized by the London Sinfonietta, an English professional group performing modern vocal music. Her students were required to write and perform their own compositions, experimenting with instruments and vocal sounds to portray the atmosphere of a Japanese theme/poem. The boys performed inside the prestigious Purcell Room in the Royal Festival Hall on May 21, 1988, as part of this special program, and entertained the London Sinfonietta itself.

Diane Trickett BS '80 is toxic education coordinator at the Cumberland Area Health Education Center

in Cumberland, Md. She is also a member of several professional associations and recently served as president of the Greater Oakland Jaycees. In 1987 she received an Outstanding Young Woman of America award.



Mervyn R. Joseph (BMus '74, MA '77)



Sharon Tolhurst (MMus '85)



Al (MA '73) and Myrna Long with Valerie and Kevin



Ulysses Carbajal (MTh '81) receives recognition from the president of the Philippine Medical Society of Southern California; at left is his wife, Jovita.

Alumni To Be Honored At Homecoming Banquet

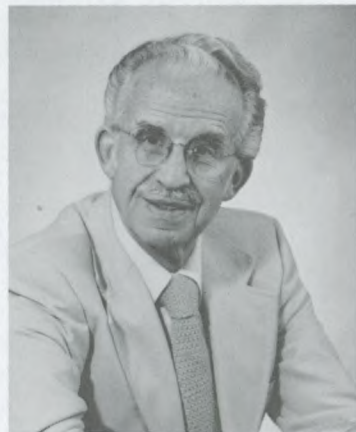
Five alumni of outstanding achievement will be honored by the Alumni Association at the Homecoming Banquet, Thursday evening, April 27.

Honored alumni are selected on the basis of outstanding service to Andrews University, unusual achievement in their profession or occupation and/or contributions to the community or church.

Don Gibbs

Don Gibbs (B.S. '32) has practiced medicine for 53 years in Cortland, N.Y. His long career is marked with deep concern for his patients both physically and spiritually.

Gibbs, who still holds regular office hours, was born in Lockport, N.Y. After graduating from high school, he began his pre-med training at the University of Buffalo, N.Y., and finished his last three years of training at Andrews. He received his doctoral degree in medicine from Loma Linda University in 1934. He spent his two years of residency at Henry Ford Hospital, Detroit, Mich.



Donald Gibbs



James Woody

Aside from his general practice, Gibbs, an honorary member of the American Medical Association, has served for 34 years on the general surgical staff of Cortland General Hospital. During World War II he spent three years stationed in New Guinea and the Philippines as a captain in the U.S. Army Medical Corp.

Gibbs, a father of 10, is married to Margaret Wilkinson Gibbs.

Terence Bryce Johnsson

Terence Johnsson (B.A. '82) is the group project manager for General Motors Europe, Russelsheim, Germany. Since joining General Motors Corporation in 1984 as an analyst, he has served in various positions at General Motors divisions located in Detroit, Mich.; Luton, England; and Zurich Switzerland.

Born in India to missionary parents, Johnsson attended Far Eastern Academy and Andrews Academy. After graduating from Andrews University with a bachelor's degree in German and economics, he earned a master's of international business in 1984 from the University of South Carolina, Columbia.



Terence Johnson



Barbara Phipps

In 1986 and 1987 he was a team member for General Motors global strategy for vehicle and component sourcing. Currently, as marketing coordinator for a \$1 billion new product definition project, he has marketing responsibility for product program and product changes for mid- and large-sized cars.

Johnsson is married to Cheryl Renee Marihugh.

James Woody

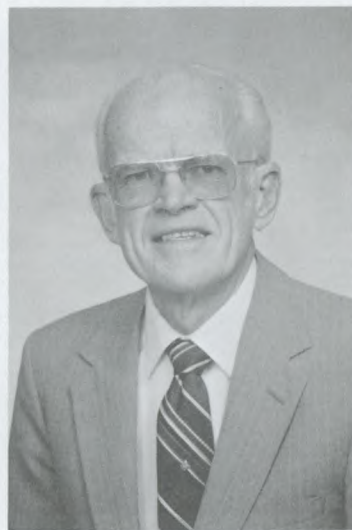
James Woody (B.A. '64), Commanding Officer of the Naval Medical Research and Development Command, Bethesda, Md., has contributed much to the understanding of the human immune system.

Born in Bay City, Mich., Woody attended Adelphian Academy and Andrews University. He received his doctoral degree in medicine from Loma Linda University in 1968. After two residencies in pediatrics at Duke University, Durham, N.C., and Harvard School of Medicine, Boston, Mass., he attended the University of London, England, and received his Ph.D. in immunology in 1977.

For the past eight years Woody has held numerous posts at medical facilities around the world including Lombardi Cancer Center, Georgetown University, Washington, D.C.; Georgetown University School of Medicine; Transplantation Research Program, Naval Medical Research Institute, Bethesda, Md.; the World Health Organization, Alexandria, Egypt; and the United States Naval Medical Research Unit #3, Cairo, Egypt.

During the past 20 years Woody as authored or co-authored over 100 manuscripts dealing with control and regulation of the human immune response to bacterial or virus infections, vaccines and tumors.

Woody is married to Suzanne Taylor Woody. They have two children, Alexandria and Justin.



Glenn Engen

Barbara Helen Phipps

Barbara Phipps has served for more than 40 years as librarian and teacher at Adventist institutions including Andrews University, the Seventh-day Adventist Theological Seminary, Takoma Park, Md., Pacific Union College, Adelphian Academy and Indiana Academy. Retired in 1981, she still volunteers her service to PUC.

Born in Hinsdale, Ill., Phipps attended Andrews Academy and Andrews University (EMC), receiving her bachelor's degree in French, English and German in 1939. She continued her studies at the University of Michigan, graduating with a bachelor's degree in library science in 1942 and a master's of library science in 1949.

Phipps has had articles published in *College and Research Libraries*, the *Journal of Adventist Education*, *Adventist Review*, and *Insight*. She is the author of a book titled *Test Tubes and Chalk Dust*, the biography of her father, Burton Phipps.

For her 20 years of service at PUC, Phipps was named associate professor of library science, emerita, in 1985.

Glenn F. Engen

Glenn Engen (B.A. '47) is a senior research metrologist at Boulder Research Associates, Boulder, Colo. His work in metrology, the science of weights and measures, has earned him four patents and five awards including the Department of Commerce Gold Medal, the highest civilian award given by the U.S. Government.

Engen, a native of Battle Creek, Mich., received his bachelor's degree in physics and math from Andrews University (EMC) in 1947. He pursued his graduate studies at the University of Michigan and University of Maryland. In 1969 he received his Ph.D. from the University of Colorado.

During his nearly 40 years of research experience, Engen has worked for the U.S. Naval Ordnance Laboratory, Johns Hopkins University Applied Physics Laboratory, the National Bureau of Standards, and the Technical University of Denmark. He has worked for Boulder Research Associates since 1987.

A Fellow in the Institute of Electrical and Electronics Engineers, Engen has presented more than 50 papers at professional meetings in the United States, Europe and the Orient. He has been published in more than 40 technical journals and has authored a book, *Microwave Circuit Theory and Foundations of Microwave Metrology*.

Engen is married to Sadie Owen Engen (B.A. '46). They have two children, Mary and David.

“The World Comes Home to Andrews”

Alumni Homecoming Weekend: April 27 to 30, 1989

Thursday, April 27

- 1:30 to 5:00 p.m. **Welcome Home! Registration at the Alumni House**
- 6:00 p.m. **Gala Banquet** “The World Comes Home to Andrews”—Entertainment by Wintley Phipps '79. Highlighting our 1989 Honored Alumni: Glenn F. Engen '47, Donald R. Gibbs '29 '32, Terence B. Johnsson '82, Barbara H. Phipps '39, James N. Woody '64
- 8:00 a.m. **Friday, April 28**
- 8:00 a.m. **Family Worship**—Prayer Breakfast highlighting our international community
- 8:00 a.m. ***Continuing Medical Education Lecture** Herald Habenicht '54 MD—“Clinical Allergy Update”
- 9:00 a.m. **Annual Wes Christiansen Golf Outing**—Hampshire Hills
- 9:00 a.m. **Meet the President** (and his vice presidents). Tour their newly refurbished offices.
- 10:00 a.m. ***Continuing Medical Education Lecture** Rebekah '74 MD and Eugene Cheng '74 MD—“Preoperative Evaluation of the Elderly Patient”
- 10:30 a.m. **School of Business Lecture**—H. Lane Damazo '84, employed by the Internal Revenue Service. Responding, Carol Harris '82, CPA with Price Waterhouse. Student response by Mark Avery.
- 1:30 p.m. **School of Business Tour**—See a slide show, a model of the new building, visit the construction site with a faculty member.
- 1:30 p.m. ***Continuing Medical Education Lecture** James N. Woody '64 MD—“Current Concepts in the Immune System”
- 1:30 to 5 p.m. **Art Show and Sale**—former student Willy Peter Wilhelmsen has done art work of campus scenes.
- 3:00 p.m. **Alumni on the Go**—Interested in hearing about the three tours planned for alumni? Come talk to the tour directors and see slides.
- 4:00 p.m. ***Continuing Medical Education Lecture** John F. Duge '64 MD—“Cardiac Anti-arrhythmics: The State of the Art”
- 6:00 p.m. **Alumni Parade**—The third annual! Why not enter something?
- 7:30 p.m. **International Flag-raising and Vespers**

Sabbath, April 29

- 7:30 a.m. **Family Worship**—Prayer Breakfast highlighting our international community
- 10:00 a.m. **Sabbath School** in Pioneer Memorial Church—Led by the Silver Reunion Class (1964)
- 8:30, 10:00, 1:20 a.m. **The Homecoming Family at Worship**—Platform participants from the Golden Reunion Class (1939)
- 11:20 a.m. For Future Alumni—**Children's Church**
- 1:00 p.m. **Reunion Dinners** at various locations
- 2:30 a.m. **Activities for Future Alumni**—Children's Story Hour
- 3:00 p.m. **Campus Tours and Fellowship**—Campus Museums and Art Gallery will be open
- 4:00 p.m. **Sacred Concert** by Reunion Brass Ensemble—Directed by Pat Silver
- 5:30 p.m. **Alumni Salad Supper**—Class photos will be taken
- 8:00 p.m. **Vespers in PMC**
- 9:15 p.m. **“Gershwin by Starlight”**—Choreographed performance by University Singers and University Symphony Orchestra

Sunday, April 30

- 8:00 a.m. **Prayer Breakfast** highlighting our international community
- 8:30 a.m. **Alumni Volunteers Business Meeting**
- 9:00 a.m. **Alumni on the Go**—another chance to hear about the three tours planned for alumni (same as meeting on Friday)
- 9:00 a.m. to 1:00 p.m. **Art Show and Sale**
- *Application for joint sponsorship with Michigan State Medical Society is in progress.

Special Reunions

Brass Ensemble
Patricia Silver
(615) 396-2840

Social Work Department
Reger Smith
(616) 471-1502

1929
Frank & Alice Marsh
(616) 471-3883

1939 Golden Class
Erling Calkins
(818) 249-1654

1949
Hugh Love
(714) 824-0719
Dwain Ford
(616) 461-6866

1959
Roger Dudley
(616) 471-4308

1964 Silver Class
Dixie Wong
(616) 473-2326

1969
Nanette Wuchenich
(714) 793-1050

1979
David Rasmussen
(616) 471-7659
Connie Green
(616) 429-0279

"Missing" Members of Honor Classes Sought

The Alumni Office wants to notify the following people of their upcoming class reunions, April 27-30, but has been unable to locate them. These "missing" alumni won't want to miss the fun, so if you can help us with current address information, won't you let us know? Please look over the list and send any information to Alumni Association, Andrews University, Berrien Springs, MI 49104-0950, or send it with the "FOCUS Wants to Know" page at the end of this magazine. Thanks for your help!

1929

Ethel M. Adel
Sarah K. Blake
Evelyn Struble Bruckner
Ethel M. Field
Emily A. Hallock
Warren P. Henderson
Josephine Holmes
Blanche Winifred Jones
Ethyl May Beamer Keller
Nina Edna Merrill
Gladys Schacht Rue
Waldo W. Stiles
Phenicie Thomas
Evelyn Calkins Vanallen

1939

Golden Anniversary
Jonathan W. Allison
Vera G. Burnett
Christopher W. Gardner
Florence Gibson
Marian Addie Hill
Lucille Haagensen Hopp
Loah Steele Kaser
Helen Brown Kickliter
Florene Virginia Marsh
Ruth L. Miller
Nellie Elizabeth Rose
Henrietta Snowfleet

Clarence L. Thomas Jr.
Marian R.S. Wilkinson

1949

Shirley F. Beary
Ole C. Bjerkan
Theodore M. Brooks
Thomas L. Brown
Betty Davidson
Evelyn M. Faurote
Margery Jane Freistad
Pauline Roberta Hunt
William E. Ingersoll
Johannes Sigva Jonasson
Gilbert A. Jorgensen
John Douglas Livingston
Theodore Lust
John G. Macintyre
Raymond Mathieu
Myron L. Mccumber
Gerald E. Mosier
Esther B. Nelsen
Neville E. Ottley
Isla Mae Padgett
James Roderick
Welling J. Schwerer
Taira Shinoharra
Leonard S. Standen
Phyllis Goff Stanton
William John Stitt
Melvin L. Taylor
Gerald Wilkinson
Joel F. Williams
Clarence Milton Wolf
Ethel Marie Wood
Shirley Margaret Woodin
June Williams Zumstein

1959

Terrell M. Bond
Paul B. Burdick
Ralph Leroy Burlingame
Herman Robert Burrow
Jacob K. Chang
Josephine E. Clayburn
M. Keith Dowell
Andrew H. Farthing
Mabel K. Gill
Harry M. Grubbs
John Mark Haynal
Leonard Hogendorp

Edith Lenore Z. James
Frederick Andrea Jensen
Dawn Jones
George Edward Katchabaw
Robert Gene Kuhns
Key Ton Lee
Willard G. Loewen
Jacinto H. Miguel
P. Emanuel Mitchell
Leslie Neal
Robert Philip Olson
M. Joyce Patterson
Evelyn Beth Robinson
Kenneth Samuels
Edward Gary Schneider
Glenn L. Shafer
Richard V. Shaw
Gilbert O. Smith
Thomas B. Stewart
Linford A. Sutherland
Jesse Titus
Baynard C. Vermilyea
David Terry Watts
Edward A. White
Harry C. Wilson
Monique Kathleen Zenny

1964

Silver Anniversary

Yoshio Akiyama
Gerard Vincent Benelli
Josef A. Birkenstock
Arminta Leona Blaker
Ruben Brinckhaus
Charles Nelson Cook
Frederic B. Cothren II
Marilee Easter Cothren
Wadie Milad Elaimy
Melvin E. Foll
Clifford Gardner
David Carl Genaway
Hagop Hagopian
Judith Lynn Herzel
Leeta F. Hobbs
Timothy Kudar Jarry
Cline Brown Johnson Jr.
Donald Carl Johnson
Wesley Munro Johnston
James D. Kettering
Marta Argueta Marin
Thomas J. Mckibbin

Lucille E. Mcmeekin
Ishmael T. Miller
Wadie Aziz Morcos
Richard L. Mummert
Christine Hatt Murdoch
Abraham Wabeke Okoro
Sandra Millhouse Oliver
Esther Euraleen Osborne
Betty I. Park
James Pastor
Roger M. Peden
Gerald A. Pfeifle
Glen Arden Priser
Robert Eugene Raz
Fred Rinker
Virginia Dee Robertson
Sam C. Robinson
Frederick Salisbury
Ethel A. Saunders
John Mike Scarvelis
Janet Dee Schuster
Victor E. Smouse
James H. Snell
Robert D. Taylor
Carl Wilcox
Sylvia G. Williams
James Y. Yong
Charlotte E. Young

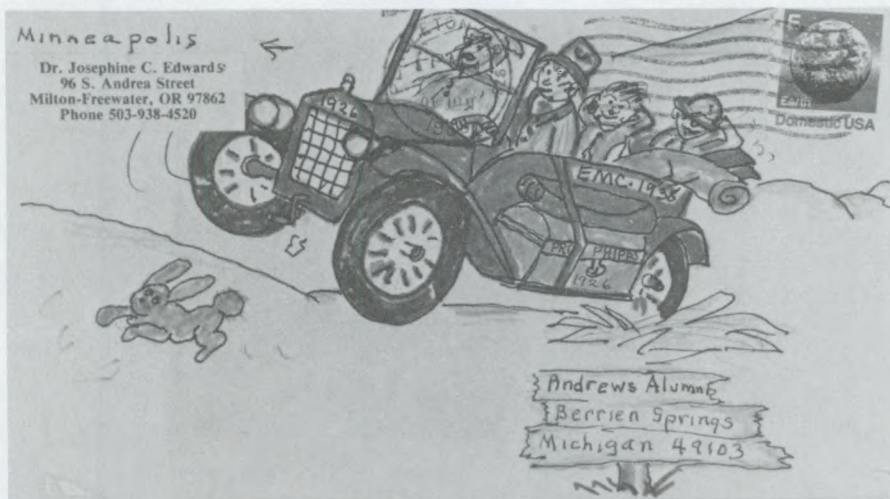
1969

H. Elison Adams
Gershom N. Amayo
Glenn K. Armstrong
Antonio Arteaga
Carmen Bailey
Roland Bainer
Charles R. Baker
Cheryl A. Balwin
Harry L. Banks
Lloyd F. Bell
Emily M. Bendler
William S. Berry
Lynn M. Binette
Joseph D. Blackman
George Burgdorff
Roger K. Chapman
J. William Christensen
Robert S. Clark
Guillermo F. Colon
Beverley Jacquell Dobson
Shirley A. Drummond
Gary E. Edwards
Lynn Buchanan Edwards
David Linn Evans
Glenn A. Ferris
Robert M. Ford Jr.
Gary O. Fordham
Glenna Faye Foster
Patricia Ann Foster
Roger L. Gardner
Astley Gordon
Thomas Gunston
Terrance J. Guy
Theodore R. Holford
Doris A. House
John T. Jacques
Lyle W. Jarrett
Anda Marietta Johnson
Marie E.M. Johnson
Joyce K. Jones
Cherryl M. Kachenmeister
Rilla Tol Klingbeil
Kenneth Wyman Koh
Pamela Elaine Koh
Bernice Krieg
John C. Leach

James Douglas Lewis
Opal Fern Lewis
R. Peter Lewis
Dale L. Lind
Glenn Gillett Marcoe
Bradley Mason
Sharon McMains Mason
Dennis R. Meyers
Fredrick A. Nudd Jr.
Ishmael Olivares
James L. Olson
V. John Olson
Marion R. Overholser
Betty Carol Patterson
Brenda M. Phillips
Glenn Owen I. Phillips
Eunice Grace Rambharose
Michael G. Rasmussen
Linda D. Ritzenthaler
Carla Crom Roberts
Carl R. Rogers
David Curry Ross
Patricia Ann Ross
Kendall J. Rudolph
Harold Lane Schmidt
Ingal Elma Schuck
Carol M. Seltman
Joann Sierman
Roberto Nogueira Silva
James Theodore Smith Jr.
David K. Tam
Russell Tataryn
Donald W. Thompson
Glyne Thorington
C. Peter Thorne
Humberto R. Treiyr
Arden L. Tuttle
Thomas W. Waggoner
Joyce D. Weidling
Eduardo Enrique Weiss
Janet Ingrid Westberg
Breta Wolcott White
Dale Williams
Gloria Swee-Ning Wong
F.C. Woudenberg
Kirby Wright

1979

Wilson Oyoma Abovwe-Efe
Nnabuike Isaac Abraham
Bonnie Hope Adams
Dianna J. Agosto
Saul Agosto
Rainer R. Albreth
Njoku Anasi
Gene Ronald Anderson
Marcia K. Anderson
Yvonne A. Anderson
Harun Ansyori
Bonovet Sharon Baptist
Christian D. Bertelsen
Marva O. Bhola
Verna Juliette Bradburn
David J. Bravo
Asril F. Bromley
Dean R. Bruington
David M. Burley
Dale E. Burwell
Geneva S. Busby
Willie A. Bussey Jr.
Ellen L. Bute
Muriel Anne Case
Nellie Ada Clark
Donald Coleman
Raimundo M. Da Silva



Josephine Cunnington Edwards (BA '44, PhD Hon '74) sent recent correspondence to FOCUS in this envelope on which she had colorfully illustrated the trip she and her husband took in 1938 from EMC to their first "call" in Minneapolis. They drove a 1926 Chevrolet, which they had purchased from Professor Phipps.



This print by artist James D. McClelland (BA '64 Honored Alumnus '84) was presented to the Alumni Association, during Homecoming '88, by the class of '58 in honor of their 30th class reunion. The limited edition print hangs proudly in the Alumni House.

Charles O. Dare
 Alvin R. David
 Larry H. Dunlap
 Douglas E. Durham
 Kevin Edgar
 Nathaniel O. Ege
 Thomas Kalu Egwuonwu
 Wayne T. Fleming
 Gary E. Ford
 John F. Frost IV
 Fay Monica Fuller
 Asstabereket Gettu
 Charles Gibson
 Esaias Girsha
 J. Vivicar Gray
 Richard Greene
 Kraig A. Grow
 Evelyn J. Guiste
 Bernice L. Hafner
 Daniel G. Hainault
 Heidi Wanek Hainault
 Paul I. Halminen
 Nye Harris-Stubbs
 Daniel Tad Harris
 Christopher Guy Heesom
 Jean K. Herman
 Deborah Lynn Hilliard
 Richard Kevin Honey

Tarja L. Hook
 Eckhard H. Huefing
 Samuel Sunny Igara
 Martin Eme Igwemadu
 Alice Issai
 Enoch Adegboyeg Iyanoye
 Jegan Jabez
 Denise A. Beck Jacobs
 Jerrold L. Jacobsen
 Tana L. Forman Jacobsen
 Daryl C. Janes
 Carol V. Johnson
 Hermine O. Jordine
 Maurice R. Jordine
 Glenda S. Judd-Nagy
 Daniel Jump
 Kallie M. Kirchberg
 Willymore M. Kisaka
 Valerius B. Kositsin
 Paul Malan Kritzinger
 Carlyle G. Langhorn
 Anita M. Lockstadt
 Abel C. Lopez
 Aruna Irene Lord
 Gerald J. Mabley
 Bonnie R. Mahoney
 Lester H. Mamanua
 Melanie J. Mann

Linda Frost Marsmaker
 Khalid S. Masoud
 Kevin A. McCormack
 Marta Medina
 Peter Osei Mensah
 Ishmael T. Miller
 Celia S. Morales
 Gabriel Onyegbul Nnodua
 Godwin A. Nwani
 Onuzurike S. N. Nwannunu
 Olubunmi T. Ogunmoye
 Nonyelu Dallison Oji
 Clement Adelusi Ojo
 Franklin Onyebuc Okwere
 Michael O. Onwugbaramuko
 Gary L. Parker
 Enid Myra Penny
 Alfred G. Perry
 Judith Morris Plummer
 Danilo H. Poblete Jr.
 Judy H. Poblete
 Timothy Ponder
 Evert F. Potgieter
 Martinus Pretorius
 Paul Price
 Robert S. Prouty
 Sherry L. Prouty
 William R. Prouty
 Joseph Ragoonanan
 John A. Rodriguez
 George Saleeby
 Joyce I. Salyers
 Kathleen M. Sauder
 Randall J. Sauder
 Lori J. Schlager
 Kathy Green Schoetron
 Mark E. Shull
 Reimer Simorangkir
 Richard V. Simpson
 Henri Pieter Smuts
 Shawna L. Stuart
 Clayton W. Sugg Jr.
 Janet Gallant Tackitt
 Raelene L. Taliaferro
 Eaton L. Tomlin
 Johannes Andries Tromp
 Roberts Iroha Uche
 Benjamin C. Ugoala
 Miguel E. Vargas
 Bernard D. Wakley
 Frederic S. Wall
 H. Elaine Wall
 Katharine M. Ware
 Clarence G. Wellborn
 Hamilton Sackie Wennie
 George C. Wilkinson
 Donna L. Willard
 Christine O. Williams
 Esther D. Williams
 Gerald K. Williams
 William B. Willruth
 Gerty Mauze Wilson
 Wendell R. Wilson
 David Wise
 Modupe Woye

Obituaries



Pearl Hall

Pearl S. Hall (BA '29) born November 4, 1904, in Graysville, Tenn.; died August 29, 1988, in Lincoln, Neb. after being struck by a car as she walked through a crosswalk. Hall had taught French and Spanish at Union College for 30 years before retiring in 1968. She received Union College's Honored Alumni award in 1978 and the Outstanding Service award in 1983. Hall had been planning to attend her 60th year class reunion at Andrews University this spring. Her albums with photographs of her EMC classmates will be on display at the Alumni House during Alumni Homecoming Weekend. Survivors include a sister, Nellie Jenkins of Lincoln; two nephews, Glen Francis of Chicago, Ill., and Stanley Hall of North Fork, Calif.; and two nieces, Patricia Black of Angwin, Calif., and Patricia Mutch of Berrien Springs, Mich.

G. Clayton Sowler (BTh '32) born July 28, 1906, in Toronto, Ontario, Canada; died December 18, 1987, in Mount Vernon, Ohio. Sowler, vice president of the class of '32, was a pastor for several years before establishing a career as an educator. He served as dean of men at Battle Creek, Mt. Vernon and Bethel (now Wisconsin) academies. He received a master of education administration degree from Ohio State University. Sowler is survived by his wife, Ardis Goodspeed Sowler of Mt. Vernon, Ohio, and a son Richard of Berrien Springs, Mich.

At Random

with Dan Fahrbach

Dr. Hare's Parrot

Here is a story.

One spring afternoon Leonard Hare, the botanist, interrupted biology lab to announce he was leading an impromptu expedition across campus. An exotic bird had been spotted on the banks of the St. Joe River. We abandoned our formaldehyde-soaked worms and followed him outside into the minted air. We trooped across the parking lots, past Nethery and Griggs, over the green lawn until we came to Beaver Point. The improbable bird wasn't hard to see. Out in a still-bare beech against Berrien's gray sky, perched a green parrot. He waddled and watched and reflected light, occasionally cocking his head toward the dark St. Joe as though it were a tributary of the Orinoco. Where had this bird come from? Where was he going? We waited twenty minutes, a hushed congregation. Parrots talk. But this bird kept his story to himself, then finally flashed away downriver. When we turned to Dr. Hare for an explanation he, too, was speechless.

So. Maybe the episode with Dr. Hare's parrot is not really a story. It is more a sunny memo-

ry, one of millions of memories that taken together become the most essential part of the thing we call Andrews University.

The odd thing is that we pay so little attention to these stories. They slip downstream like the green bird.

Yet experience, and the memory of it, is used, applied and considered as much as any math or science formula, date or theorem that comprise our college education. If memories are important, the death of each alumnus is like the burning of the ancient library in Alexandria. Those memories, the very stuff of life are gone, gone, gone.

Here's more.

During lectures Dr. Hare would rub his chalk-dusted fingers over the silver bristle of his hair. It was a boyish gesture. He taught botany as though he had learned it from his father, the storyteller from Burma, trying to slip us the facts in the guise of a story. His lecture on the Krebs cycle was delivered as the adventurous circuit of a yellow school bus and its rambunctious passengers and was accompanied by a messy sketch on the blackboard marking the stops where various chemical reactions took place.

Are these trivial enough to be forgotten? The brain has a nearly limitless memory for stories; while the lists, dates, definitions and formulas we drill on at school evaporate right through our mortarboards at graduation.

The five-line biographies in this issue of Focus, announcing marriages, new jobs, births and deaths are not enough. It's fun to read between the lines, but they do not tell the story of this institution or the peculiar people who attended here.

We say, "If walls could talk." They won't. And so whole panoramas of corporeal memories fade. For instance, the experiences of men and women on the old EMC campus in the years after World War II are

grist for a novel. Men back from the war and the world, experienced, equipped with the GI bill, ready to take part in booming America. Women, for the first time choosing careers. And everyone crowded onto campus—a dean's nightmare of hormones and optimism.

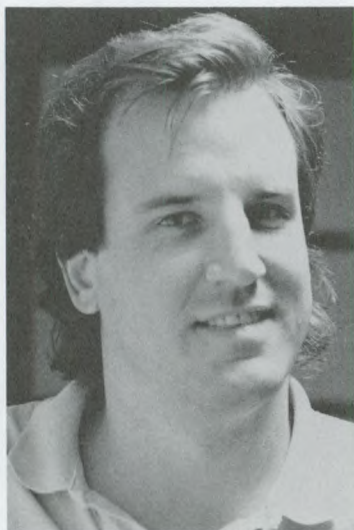
More recently Andrews has become a world campus with an unprecedented mix of students from North and South. This: an African woman who speaks four languages sits next to a farm boy from Wisconsin, taking notes as a teacher from Germany discusses an ancient Semite named Habakkuk. That is a story.

Who are these people? Where are they going? The sad thing is that these stories perch here, briefly observed and then are gone. Unless these stories are told, we—and more importantly, our children—will always feel that the real, worthwhile world is downriver, somewhere else.

A people so committed to the Word and an institution so committed to words shouldn't let its stories disappear over the horizon. We could lose ourselves.

Dan Fahrbach writes from Allentown, Pennsylvania. The facts can't adequately explain how this came to be.

We say, "If walls could talk." They won't. And so whole panoramas of corporeal memories fade.



Dan Fahrbach

Focus Wants To Know _____

About you

Name _____ Maiden _____

Address _____

City/State/Zip _____

Telephone _____

Degree(s) received from Andrews/Year(s) of graduation _____

Years attended Andrews _____

Current occupation/employing organization _____

Location (city/state) _____

Special contributions to church or society, professional development or promotions, additional degrees or certificates, travel, hobbies, volunteer work or anything else interesting about you or your spouse:

Your new address

First name/middle/maiden/last _____

Mailing address _____

City/state/zip _____

About your family

Spouse's name _____

Years attended Andrews _____

Degree(s) received from Andrews/Year(s) of graduation _____

Current occupation/employing organization _____

Location (city/state) _____

Children _____ Date of Birth _____

Feel free to submit a snapshot or family portrait for publication. Either black and white or color is acceptable; prints will be returned upon request.

Missing Alumni

Please look through the list (pages 28 and 29) of missing alumni from this year's honor classes. If you know the addresses of any of these alumni, please print them on this form and mail it to the Alumni Association, Andrews University, Berrien Springs, MI 49104.

Name _____

Address _____

City _____ State _____ Zip _____

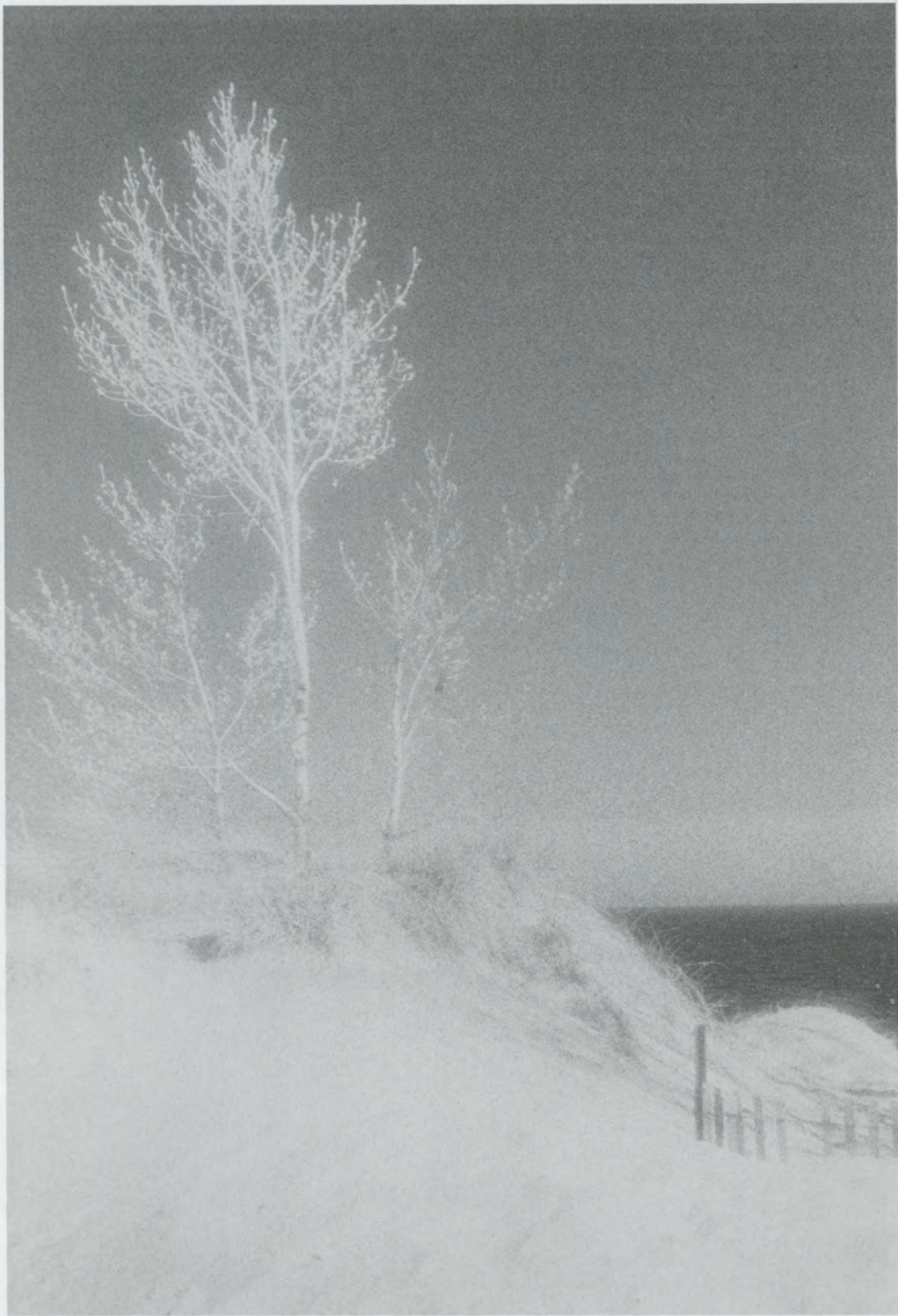
Country _____

Name _____

Address _____

City _____ State _____ Zip _____

When your address changes: Send your new address to FOCUS, Andrews University, Berrien Springs, Mich. 49104. Please include both old and new addresses (send mailing label from last issue, if possible). Subscription is free. Note: If your name changes with marital status, please include maiden name on the address change form.



Spring Day on the Dunes

Photo by Brad Leavelle

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