

Meghan Burleigh and Robert Woys, 2002 SEED students, present posters at the 2002 Midland Section Fall Scientific Meeting, October 11, 2002. See page 3.



THE MIDLAND CHEMIST

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Cover photographs by Peggy Hill.

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Chair Column

The Rainy Day Arrives

At our February board of directors meeting we approved a budget for the year 2003 that should enable us to achieve the level of member service and community outreach that we have provided in recent years. One of the main reasons we have been able to offer such a wide variety of services has been the handsome support of our two local industrial corporations, The Dow Chemical Company and Dow Corning. I am sure that their generosity makes us the envy of many less-well-off local sections. I also believe that this funding has contributed to the numerous awards the Section has garnered in recent years.



Mike Owen, Chair
ACS Midland Section

However, the budget has been balanced at the cost of carrying over the considerable surplus from last year. This was necessary because corporate contributions are down this year. I am pleased to report that Dow Corning is supporting us this year at the same level as in the immediate past, but Dow Chemical, or more correctly, The Dow Chemical Company Foundation, has had to reduce their contribution to 60% of the recent level. We are very fortunate to get this, of course, in the light of the recent measures announced by Dow to cope with the economic difficulties they are facing. We are truly grateful for their continued support in difficult economic times.

By using all of last year's surplus we are not adding to our reserves at all. The reserves are intended for the "rainy day," which may have arrived, but we should not get into this habit without considering other belt-tightening measures. There are other indications of this need, including signs that the National ACS is also becoming less generous in the matching funds that it offers. All in all it seems we must be very prudent with our finances this year. The options are familiar: trim all budgets by a target amount such as 10% or be more selective in our cuts and eliminate or make substantial reductions in specific activities.

We will keep you informed of these developments as we continue to debate and manage this issue throughout the year. For the moment, let me just raise one possibility for substantial savings, the electronic distribution of our newsletter, *The Midland Chemist*. Before any action can be taken, we will need to know what fraction of our readership will be able to cope with such a change. I welcome your input on this initiative and strongly encourage you to offer your views on the topic. However, I would

more welcome your practical help. If there is anybody willing to assist us in collating member e-mail addresses and other information, please let me know. This essential first step will be very valuable, whether or not we proceed further with electronic distribution of *The Midland Chemist*.

Let me now turn from financial woes to a more positive aspect of our program, the visit of an ACS tour speaker, Professor Fred Wudl of UCLA, to CMU at the end of March. I imagine many of you will recall the broad publicity given last year to his work on self-healing polymers. This will be the subject of a CMU Chemistry Departmental Seminar at 4:00 p.m. at CMU on March 31. At 7:00 p.m. that evening he will give a special ACS Section-sponsored seminar at CMU on fullerenes entitled "Solid State Synthesis of a Doped Conducting Polymer." I urge as many of you as possible to attend.

One area where we could and should do more is in this area of seminars of interest to members—our recent member survey certainly tells us that. However, in recent years member attendance at such talks has been discouraging. Again, I would welcome your opinions and suggestions, and particularly your assistance, regarding this issue. One possibility discussed at the last board of directors meeting was a symposium on "Dioxin in Midland." We resolved to collaborate with Etcyl Blair, a former chair of the Midland Section and 50+ year member, who has already made considerable progress on this topic.

Mike Owen



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Project SEED Projects Aim for Better World

Article and photos by Peggy Hill

Neither of the two Midland Section-sponsored Project SEED students ever expected that their summer research would save the world, but both efforts did bring us closer to a better one. From recycling efficacy to phytoremediation, the subjects investigated by these students show off the power of chemistry to solve problems, as well as the power of chemistry to motivate young minds.

Mt. Pleasant High School junior Meghan Burleigh spent the summer at Dow Corning with Frances Fournier studying the recyclability of two thermoplastic elastomers. Looking at the effects of repeating regrinding and reprocessing on her samples of plastic, Meghan measured changes in properties such as ultimate tensile strength, elongation at break, hardness, and molecular weight. My description here doesn't do justice to the large scope of her project since she also fully covered the effects of high heat and variations in the percentage of old (reprocessed) and new (unprocessed) material in the grind mixture.

When I visited Meghan in the lab one day about three-quarters of the way through her project, she gave me a tour. Her confident explanations at each step were not surprising—Meghan's straight-A school record prepared me to expect no less. A little unexpected, though, was her reply when I asked about how she liked the research experience. She said with quiet humor, "I like it very well—after all, I haven't even broken anything!"

Meghan is now enjoying her senior year at Mt. Pleasant High, taking math and physics courses as a concurrent student at CMU and expanding her musicianship in band and orchestra. She plans to return for a second summer of Project SEED this year.

Robert Woys, our SEED II student and 2002 graduate of John Glenn High School (Bay City), spent his summer working on a variation of his project from last year with Dave Karpovich at SVSU. Rob investigated sev-



Meghan Burleigh and Robert Woys at work at Dow Corning and SVSU, respectively.

eral factors that affect the capacity of plants to take up lead from soil. As part of a larger phytoremediation project in Dave's lab, he worked on characterizing the capacity of two different plant species to remediate lead under conditions in which the soil is primed with varying amounts of chelator. Using mass spectrometry to measure the lead chelate in plant digests, Rob was able to show the extent of uptake as well as significant differences between stems and leaves as repositories of remediated lead.

The day I visited Rob in the lab, he was tending his racks of plants with the air of an overprotective parent. When showing me the methods and equipment he used, Rob's seriousness made him seem a lot older than I would have expected from a soon-to-be college freshman. It takes a lot to get Rob to smile, so I knew he was quite pleased when his face lit up at the mention of the scholarship he was awarded from the Project SEED program. He should be pleased—Rob was one of only twenty SEED students nationally to receive a \$5000 Bader scholarship as the result of his SEED research and scholastic performance. Rob is now a freshman at Delta College and is planning to keep chemistry at the forefront of his career path.

It will be hard to assemble a better group of SEED students than Rob Woys and Meghan Burleigh. This has been an exceptional year with two of the most highly motivated students that I've ever seen in this program. Who knows? Maybe someday they will save the world.

SEED I Student

Meghan Burleigh
Mt. Pleasant H.S.

Preceptor

Frances Fournier
Thermoplastics
Dow Corning

Project

"A Recycling Study on Thermoplastic
Silicone Vulcanizate Materials"

SEED II Student

Robert Woys
John Glenn H.S.

Preceptor

David Karpovich
Dept of Chemistry
Saginaw Valley
State University

Project

"Comparison of Stem and Leaf
Uptake During Lead Remediation"

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We Need Your Input!

By Ann Birch

The *Midland Chemist* is seeking input from members on two items: We are initiating two new series of articles. One series will be "People Profiles," by Peggy Hill, highlighting chemists in the Section five-county area who stand out from the crowd for their contributions to science, contributions to society, or for other unusual attributes. The other series will be "Careers for Chemists," by Don Miller, highlighting chemists who use their degrees in unusual ways and have unusual careers related to chemistry. Subjects for this series are not confined to the Section area. One of the purposes of this series is to inform Section members of opportunities that might exist outside conventional chemistry careers.

If you have ideas for subjects for either of these series, please contact Peggy Hill (m.hill@chartermi.net, 989-463-6467) for "People Profiles" or Don Miller (donmiller@tm.net, 989-832-8270) for "Careers for Chemists."

We are also trying to assemble names and e-mails of members who would like to receive an online version of *The Midland Chemist* rather than a print version. We will continue to provide a print version for members who would prefer it, but will probably make an online version available later this year. If you are interested in an online version, please contact Ann Birch (ann.birch@editech-mi.com, 989-832-7485).

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New Exhibits, Activities are ‘Out of this World’

From Hall of Ideas Press Release

The Hall of Ideas, Arts Midland: Galleries and School and the Delta College Planetarium and Learning Center are presenting three new exhibits under the title “Out of this World.” The exhibits are on display until May 4, 2003. Exhibits and activities include:

Exhibits

Cosmic Questions: Our Place in Space and Time

This high-tech interactive show combines the beauty of the universe with knowledge about its origins. In this dynamic exhibition, visitors are invited to explore where we are in space and time, find out the latest on unsolved cosmic mysteries like black holes and extraterrestrial life, and discover what it’s like to be an astronomer uncovering clues from the cosmos hidden in the faint light of distant galaxies. Organized by the Harvard-Smithsonian Center for Astrophysics.

Heavens Above: Photographs of the Universe from the Hubble Space Telescope

Witness the magnificence of the heavens with world premiere images! Made possible by the NASA Space Telescope Institute.

Journey to the Edge of Space and Time

Enjoy the Delta College Planetarium and Learning Center, one of the most sophisticated planetarium theatres in the world, where you can travel on a mysterious journey through the cosmos. Open Saturdays and Sundays.

Activities for Kids and Adults

February 23—Science Sunday: Our Amazing Universe

Launch yourself and your children into rocketry and space science. Explore pulsars, galaxies, clouds in space, black holes and much more at 2:00, 3:00, and 4:00 p.m. in the Lecture Room.

March 23—Science Sunday: StarLab

(Limit of 25 students per session)

Orbit into your imagination with the Star Storyteller Don Martin. Let him astound you and your children with the stories of Orion, Pegasus, Leo and many other constellations at 2:00, 2:30, 3:00, 3:30, 4:00, and 4:30 p.m. in the Garden Room.

Activities for Adults

February 22—Lecture by Dr. Mario Livio, Space Telescope Science Institute

“The Accelerating Universe: A View from Hubble”

Astronomer, astrophysicist, and director of the Science Division at the Space Telescope Science Institute, Dr. Livio will speak on recent findings

of the Hubble Telescope and the concepts that bridge science and art. Book signing will follow. 2:00–3:00 p.m. in the Little Theatre.

March 20—Lecture by Dr. Gregory D. Wirth, Keck Observatory

“Giant Telescopes of Mauna Kea: Cosmic Time Machines”

Astronomer at the Keck Observatory in the Mauna Kea Observatories Complex in Hawaii, this former Midland resident will speak on current instrumentation and procedures including infrared astronomy, sub-millimeter wavelength and radio astronomy. 7:00 p.m. in the Little Theatre.

For more information, call 800-523-7649 or 631-8250 or visit the web page http://www.mcfta.org/hall_of_ideas/index.htm

This exhibit is presented in collaboration with Jeff Kennedy Associates, Inc. Sponsored by The Dow Chemical Company Foundation, The Herbert H. & Grace A. Dow Foundation and CABOT: creating what matters. “Cosmic Questions” was made possible by the generous support of the National Science Foundation and NASA.

Executive Committee Named for 2003



Meet the Midland Section Executive Committee of the board of directors. (l-r) Mike Owen, Connie Murphy, Wendell Dilling, Ann Birch, Sharyl Majorski-Briggs, Pat Cannady, Doug Beyer, and Joe Ceraso. Photo by Angelo Cassar.

Call for Nominations

2003 Science Teaching and Education Volunteer Awards

By Petar Dvornic

Each year the Midland Section of the American Chemical Society presents awards to recognize outstanding achievement in the teaching of the chemical sciences. Nominations for the 2003 awards are invited.

Awards are presented for outstanding achievement in the following areas:

- Elementary Level Science Education
- Middle Level Science Education
- High School Chemistry Teaching
- College Chemistry Teaching

Candidates for these awards must be educators at schools in the five-county geographical area of the Midland Section: Bay, Gratiot, Isabella, Midland and Saginaw Counties.

The Science Education Volunteer of the Year Award is also presented to an individual who makes a substantial contribution to science learning in the Midland Section through voluntary efforts.

Previous recipients of the awards are as follows:

	Elementary Level	Middle Level
1992	Karen Ziemelis	Derrell Steffen
1993	Lela Wade	Laurie Hepinstall
1994	Constance A. Dullock	JoAnn Kraut
1995	Joan Klopčić	not awarded
1996	Mark Hackbarth	Barbara J. Bibbee
1997	Denise Koppleberger, Cheryl Ruthig	Gary J. Johnson
1998	Barbara McGivern	not awarded
1999	John Clark	not awarded
2000	Sue Burtch, Robin Harshman-Rogers, Vicki Richard, Clare Jorgensen	not awarded
2001	Cathy Egerer, Amy Hindbaugh-Marr	not awarded
2002	Maureen Becker	Joel Mikusko

	High School Teaching	College Teaching
1989	Robert Wallace	Joan Sabourin
1990	Gary Ronk	Bob Howell
1991	not awarded	Robert Kohrman
1992	John Clark, Edna Konwinski	Scott Hill
1993	Mary Irons	Ajit Sharma
1994	Jo Ann Pelkki	Laura Vosejпка
1995	not awarded	George Eastland

1996	Sandra Schafer	Martin Spartz
1997	Mary Fredell	Philip Squatrito
1998	Dale Ressler	Thomas Delia
1999	Robert Enszer	Steven Keinath
2000	Steven Kelly	James Hutchison
2001	William Stokes	Sandra Smith
2002	Robert Hansen	Margaret Hill

Science Education Volunteer

1992	Gregg Young
1993	Peter Bonk
1994	Peter Moehs
1995	Gretchen Kohl
1996	John Blizzard, Richard Van Effen
1997	Marvin Tegen
1998	Carlton Beyer
1999	William Albe
2000	Karol Childs
2001	Donald Petersen
2002	Joan McMahon

Recipients of all awards will be selected by the Awards Committee. Nominators should write a letter indicating the award and describing the attributes of the candidate. Supporting letters from students, colleagues, supervisors, and community leaders are strongly encouraged. The deadline for nominations is March 21, 2003. Electronic and fax submissions are acceptable. All submissions must be accompanied by the name, position, address, and phone number of the nominator.

Award recipients, as well as high school and college student award recipients and Chemistry Olympiad winners, will be honored at the 2003 Science Education Recognition Dinner on May 1 (see page 10).

The Awards Committee greatly appreciates the efforts involved in nominating someone and thanks you for helping to recognize deserving educators in our section. *Parents: Does your child have a great science teacher? If so, consider nominating him/her and pass this flier along to that teacher's principal or section head.* Please submit nominations to:

Petar Dvornic, dvornic@mimi.org
Chair, ACS Awards Committee
Michigan Molecular Institute
1910 W Saint Andrews Rd
Midland, MI 48640-2696
Phone: 989-832-5555, Ext. 550; fax: 989-832-5560

Spring Science Education Recognition Dinner

Thursday, May 1, 2003

6:00 p.m. to 9:00 p.m.

47 Building Cafeteria, The Dow Chemical Company
Midland, Michigan

Program: 6:00 p.m. Reception
6:30 p.m. Buffet Dinner
7:30 p.m. Awards Presentations

Teachers and students will be recognized for their outstanding achievements in science education at this twelfth annual event.

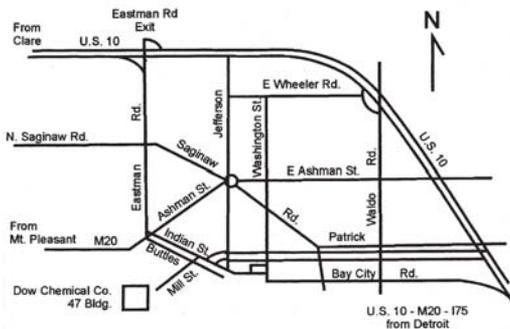
The cost of the dinner is \$15.00 per person and includes appetizers, dinner, dessert, and beverage. Please respond by mail using the form below.

Your dinner reservation request must be received by April 21, 2003. You may also register by email

(dvornic@mimi.org) and pay at the door. This event is sponsored by the Midland Section of the American Chemical Society and underwritten by grants from The Dow Chemical Company and Dow Corning Corporation. For

further information, contact Petar Dvornic at (989) 832-5555, ext. 550.

To reserve a place at the 2003 Spring Science Education Recognition Dinner, return this form with payment by **April 21, 2003**, to Petar Dvornic, Michigan Molecular Institute, 1910 W. St. Andrews Road, Midland, MI 48640-2696



Name(s): _____

Affiliation: _____

Address: _____

Phone/Email: _____ ACS member? Y N

Enclose payment of \$15.00 per person. Checks should be payable to "Midland Section ACS"

MMTG 'Adopts' a Family in 2002

By Stephanie Anderson

Participation in the Adopt-A-Family program is such a blessing. Not only was I able to expose my daughter to the needs of others, but I was also reminded that without the help of others, many people would not have any more than the basics.

With donations from MMTG members (and a few non-members), we were able to select a five-member family. We collected cash donations as well as specific item donations. Our family consisted of a single mom with a 17-year-old daughter, a 16-year-old son, a 12-year-old daughter, and a 10-month-old granddaughter. Our family had specific wishes that we were able to fulfill. We purchased in all, a cordless phone/answering machine, a Nintendo Gamecube, a portable CD player with a specific CD, a tanning membership, a floor exercise mat, and a Bennigan's gift certificate with a gift basket. The grandbaby has had multiple brain surgeries since her birth. The money spent on medical bills was the reason this family looked to The Salvation Army for some hope to celebrate Christmas. We initially were overwhelmed with the idea of trying to meet the needs for the baby (the exercise mat), but with the ease of shopping on the Internet, I was able to find an excellent quality mat at a much discounted price.

Just talking to the mother caused me to think through my own plans for the holidays. As we all know, in times of adversity, it's the extras or special needs that are neglected. I wish that everyone could have direct involvement in being such a blessing for a struggling family. I enjoyed coordinating the gifts of everyone that participated in this worthwhile activity. To see and hear the joy that was brought about by the generosity of those who gave is reason enough to encourage my efforts in years to come.

I am including below part of the letter received from The Salvation Army to the groups/individuals that sponsored the Adopt-A-Family program for the 2002 holidays.

"We heard of many life lessons being taught to children as their parents shared their blessing by adopting others in need. One of our favorite stories was of a family of four with a new baby due in June. The mother came to register for Christmas toys, not for her own children, but for the *four* nieces and nephews they had taken into their home the day before...this mother did not want them to be split up into foster homes. We assured her that we would be glad to offer toys to these children. As God would have it, within the day a sponsor adopted all eight of them.

Thank you so much from all of us here at The Salvation Army for caring for and sharing with the many individuals in our community—we are, indeed, blessed by you!"

Cannady Receives Recognition as 2002 Chair

By Ann Birch

Being chair of the Midland Section is not an easy task. Although working with the board of directors and Section members is rewarding, the chair inevitably shoulders the concerns of the Section for that year and spends a lot of personal time keeping the Section running and serving its members. Through the years, the Midland Section has been very fortunate to have excellent leaders, and Pat Cannady is no exception. Pat was the chair of the Midland Section in 2002 and is now serving as 2003 past-chair and chair of the Long-Range Planning Committee. Thanks, Pat, for a great job!



At the board of directors meeting on January 13, 2003, chair Mike Owen presented Pat Cannady, 2002 chair, with a pin recognizing his service to the Section.

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Section Initiates Younger Chemists Committee

By Wendy Flory

A great year lies ahead for the newly formed Younger Chemists Committee. A planning meeting was held on February 5 to collect ideas and map out activities for this year as well as future years. Here are a few of the exciting events suggested:

- Casino game night
- Paintball
- Career path discussions at local universities
- Job shadowing
- BBQ picnic at a local public lake
- Pick-up games of softball and sand volleyball
- Annual social mixer of Midland ACS
- Gathering of all local scientific organizations like AIChE, SWE, SPE, ACS, student affiliates, chemistry clubs, etc.
- Plan the Midland Fall Scientific meeting

This is only the beginning! If you would like to participate in this group through planning activities or just

being on the distribution list, please email wcfly@ dow.com and indicate to which distribution list you would like your email added.

To receive future information about the local section YCC, email wcfly@ dow.com with the following information:

- Name
- Email
- Indicate **one** of the following:

I'd like to be on the planning committee

or

I just want to be on the general email distribution list



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MMTG Begins New Year

By Amy L. Betz

Happy New Year, everyone, and welcome to what I hope will be a productive, educational, and fun year for the Mid-Michigan Technicians Group (MMTG). My name is Amy Betz, and I am the 2003 MMTG chair. I have worked as a technologist for The Dow Chemical Company for over 12 years. I have been working in the Analytical Sciences department, most recently in the Engineering Sciences department conducting research in fluid flow and mixing, and soon will be transitioning into a new role with the ET&ICM (External Technology and Intellectual Capital Management) R&D Capability.

MMTG is a local professional organization affiliated with the Midland Section of the American Chemical Society (ACS) and associated with TECH, a national professional organization for technologists. MMTG is devoted to providing opportunities to technicians and technologists within the scientific community to enhance their skills, improve their networks, and broaden their career possibilities. Members have the opportunity to network with other technicians from the local area as well as with other technicians nationally, attend seminars/workshops, and participate in public outreach programs and social events. Members also have a forum to practice their skills (such as presentation, communication, leadership, etc.) in a supportive, non-threatening environment.

MMTG also works to improve the image of the technician/technologist as a professional, as well as participating in community outreach programs primarily dedicated to educating the public in science-related fields.

Toward those ends, in years past the MMTG has chaired or participated in events such as:

- Sci-Fest at Delta College
- Chemistry demonstrations at the Midland County Fair
- Seminars on improving report-writing techniques, improving presentation skills, technical poster preparation and presentation, coping with change, and maintaining a positive attitude
- Presentations of the advantages/disadvantages of leaving the ranks of technologist to pursue an advanced degree or higher company position
- Social events
- The Outstanding Student Technician Award given to a Delta college student in the Chemical Tech. Program
- Sponsorship to send an MMTG leader to a national ACS conference
- Community charity events
- Chemistry demonstrations at local schools

This year we intend to continue to offer seminars that will enhance the skills and effectiveness of MMTG members, as well as continue to offer opportunities for members to practice their skills and display their talents. Networking opportunities will also continue to be a focus. In addition, for the first time, the chair and chair-elect will be sent to a national leadership conference sponsored by the American Chemical Society to develop and improve leadership skills. This should increase their effectiveness in leading MMTG, thereby increasing the value of MMTG to its members.

The only requirement for joining MMTG is an interest in science. If this sounds like something you would like to be a part of, or if you have questions and would like more information, please contact me or visit our website at <http://membership.acs.org/t/tag/default.htm>. I can be reached at 989-636-9549 or by e-mail at albetz@dow.com.

ACS Tour Speaker Comes to CMU

By Ann Birch

Fred Wudl, Courtaulds Professor in the Department of Chemistry and Biochemistry, UCLA, and ACS tour speaker, will present "Solid-State Synthesis of a Doped Conducting Polymer" at Central Michigan University. The presentation will take place in Dow 175 on March 31 at 7:00 p.m. Dr. Wudl obtained his B.S. degree in chemistry from UCLA in 1964 and his Ph.D. in 1967. From 1968–1969 he attended Harvard University in a post-doctoral program on vitamin B-23 synthesis.

Dr. Wudl has received many awards, most recently, the 1996 American Chemical Society Award for Chemistry of Materials and the 2001 Herbert Newby McCoy Award. In 2001 he was named a member of the American Academy of Arts and Sciences. He is associate editor of *Molecular Crystals and Liquid Crystals* along with numerous other activities with professional journals and organizations. He is also the director of the UCLA Materials Creation Training Program (MCTP) IGERT and director of the UCLA Exotic Materials Institute. His publications include 360 papers, 9 U.S. patents, and 1 Canadian patent.

Dr. Wudl will also be presenting a seminar on "Self-mending Polymers" as part of CMU's Chemistry Seminar Series. The seminar will be presented on March 31 in Dow 175 at 4:00 p.m. There will be a reception preceding the seminar in Dow 264 at 3:30 p.m. For more information, contact Anton Jensen, 989-774-3125.



Lane Receives CMU Distinguished Alumnus Award

From CMU Press Release

Tom Lane, an ACS member since 1974, was named Central Michigan University's 2002 Distinguished Alumnus. A senior research scientist at Dow Corning Corporation in Midland, Lane says CMU is a technological institution on the rise and that materials science—his field of professional expertise—is an important tool for future technological discoveries.

“Under the strong leadership of Dr. Rao (CMU President Michael Rao), CMU is becoming recognized as a technological institution—a leader,” said Lane, a fellow of the Royal Society of Chemistry. “I understand that CMU is considering a doctoral program in materials science. If preliminary discussions were to bear fruit, such a program would really differentiate CMU from other institutions. The interdisciplinary approach that this program would embody will help scientists solve many of today's problems.”

Lane, who earned a master's degree in chemistry from CMU and a doctoral degree in chemistry from The Open University in England, says he helps unravel important mysteries at the molecular level. According to Lane, materials scientists are a hybrid of chemists, nuclear scientists, and engineers who deal with things they can see and touch and develop applications for many industries.

“Materials scientists study how materials behave under many different environments, whether it's in outer space, in the desert, or under the seas,” said Lane. “Materials science deals with the characteristics of things we use in commerce.”

According to Richard St. Andre, interim dean of the College of Science and Technology, CMU does not currently have a doctoral program in materials science, but there is considerable interest from faculty in beginning a program because they already are involved in research in this area.

“A doctoral program makes sense in light of CMU's central mission to provide the education needed for progress in society,” said Koblar Alan Jackson, a faculty member in the physics department. “The materials area is



Mike Rao, CMU president, presents the alumni award to Tom Lane (right).

very active, and there is a strong demand for technical training in this area. We have the right expertise on campus to offer advanced training in materials research.”

Lane has served as external research adviser for CMU graduate students and is a National Science Foundation Network member. He was a member of the Enzyme Linked ImmunoSorbent Assay team, for a specialized test used in molecular and cellular biology. He has been an adjunct faculty member at domestic and international universities. He also has worked with the U.S. Department of Defense on a number of projects.

“My scientific career has been extremely rewarding, and CMU has played an important role,” said Lane. “As CMU continues down its path as a technology leader, I am certain that it will influence me and others like me in the very near future. I took my master’s classes at CMU while I was employed at Dow Corning. It really was a great experience for me. I remember CMU faculty members like Tom Delia, Quentin Peterson, and Bob Howell because they all had a significant impact on my life. They really helped to shape me and sort out my life in science,” said Lane.

Lane’s wife, Janis Landry-Lane, is an executive in the scientific and technical computing department, worldwide life sciences segment, at IBM. Their daughter Julia is a student at Queens University of Kingston, Ontario; a son Peter is a freshman at the University of Michigan; and a son Sam is a fifth grader at Carpenter Street School in Midland.

In Past Issues of *The Midland Chemist*

By Wendell L. Dilling, Midland Section Historian

- **30 Years Ago This Month**—Frank Stewart reported that on April 5 and 6 the Midland Section would present its Eleventh Annual E. C. Britton Symposium on Industrial Chemistry. The subject was “What Can a Chemist Do in Industry” and featured speakers from Dow and Dow Corning.
- **20 Years Ago This Month**—David Watson noted in his Chairman’s Corner column that several Midland Section members demonstrated professionalism by serving on National ACS committees and as advisors to student affiliate chapters, including Randolph Beaumont at Alma College, Ed Benson at Central Michigan University, Art Smith at Delta College, and Peter Moehs at Saginaw Valley State College.
- **10 Years Ago This Month**—The Art and Chemistry Departments of Central Michigan University and the Midland ACS Section announced a lecture at CMU by Alfred Bader, founder of Aldrich Chemical Co., on “Adventures of a Chemist Collector” and two other lectures.

Important Dates on the ACS Midland Section Calendar

- March 3 Deadline for April issue of *The Midland Chemist*
- March 10 Dr. Laura Bloem, Eli Lilly, "Kinases as Drug Targets for Cardiovascular Disease," CMU Seminar Series, Central Michigan University, Dow 175, 4:00 p.m., reception preceding in Dow 264 at 3:30 p.m. (Anton Jensen, 989-774-3125)
- March 17 Midland Section board meeting, Delta College, Midland Center, Room 12, 7:00 p.m.
- March 17 Prof. John Seeley, Oakland University, "The Development and Application of Comprehensive Multidimensional Gas Chromatography," CMU Seminar Series, same logistics as March 10 seminar.
- March 31 Prof. Fred Wudl, UCLA, "Self-mending Polymers," CMU Seminar Series, same logistics as March 10 seminar.
- March 31 Prof. Fred Wudl, UCLA, "Solid-State Synthesis of a Doped Conducting Polymer," ACS tour speaker, Central Michigan University, Dow 175, 7:00 pm (Anton Jensen, 989-774-3125)
- April 7 Prof. Marshall Werner, Lake Superior State University, "Thiaminase: Isolation From Fish and Development of a Novel Fluorescent Microplate Assay," CMU Seminar Series, same logistics as March 10 seminar.
- April 14 Midland Section board meeting, Delta College, Midland Center, Room 12, 7:00 p.m.
- April 14 Prof. Alexander A. Bagatur'yants, Russian Academy of Sciences, "Integrated approach to atomistic simulations of thin film growth, structure, and properties," CMU Seminar Series, same logistics as March 10 seminar.
- May 5 Deadline for June issue of *The Midland Chemist*

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