



Professor Markus Antonietti, Max Planck Institute and University of Potsdam, is the 2005 Turner Alfrey Visiting Professor. See pg. 8.

THE MIDLAND CHEMIST

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Chair Column

ACS President Visits Midland Section

The highlight of March was the visit of ACS president, Dr. William F. Carroll. Bill had a whirlwind tour of the area, visiting Dow, Dow Corning, MMI, CMU, and the Tribal School in Mt. Pleasant. He spent time with several corporate and university leaders, students, and faculty. He also gave an evening presentation at the Ashman Court Conference Center entitled "ACS Agenda 2005: An Invitation to Dialogue," in which Bill described his priorities for ACS. Look for the presentation on the Midland Section web site (<http://membership.acs.org/m/midl/>).



Pat Smith, Chair
ACS Midland Section

Bill gave us numerous ideas for enhancing our Section's programs. In particular, he suggested that we undertake service projects that underscore the value of chemistry for the community such as a Habitat for Humanity house project that highlights Styrofoam® brand insulation and other building products from the chemical industry. Bill was very impressed with both the quality and breadth of our outreach programs.

Speaking of being involved in many excellent programs, the Midland Section Board of Directors is reconsidering our mission statement and the calling of our Section. There are many opportunities for us to be involved over and above what we are doing now. Therefore, a statement of our mission will help us to focus on the things that are most important.

We are also actively seeking new sources of income, both from the National ACS in the form of matching grants and from local institutions and foundations. This takes some care because we don't want to unintentionally sacrifice programs that have been funded historically for new programs. We are speaking with other societies that already collaborate with us in outreach programs, such as SPE and AICHE, to consider how we might work together to attract new funding.

We are in the planning stages of the Fall Scientific Meeting. This year's theme is "Nanomaterials" with the FSM general chair being Gregg Potter and the program chair being Greg Meyers, both from The Dow Chemical Company. You don't have to be named Greg to help out, so if you want to assist with symposia, keynote speakers, or in another capacity, contact Gregg Potter or me for more information.

The more I learn about the activities of our Section, the more impressed I am with the quiet but effective leadership that is taking place around us. We truly have a passionate group of leaders doing a marvelous

job of outreach for the chemical enterprise. I plan to encourage several of these activities to be more vocal through reports to the Board as well as articles in *The Midland Chemist*.

One new leader that I would like to welcome to the Section is Joel Kern, who has volunteered to lead the Younger Chemists Committee (YCC). I also encourage you, as you learn more about these activities, to plug in where you feel a calling.



Section and Section Chair Goals

By Pat Smith

Goals of the Midland Section

1. Increase section membership by circa 5% by hosting high-profile speakers (Bill Carroll on March 3–4 and Rich Meyers, R&D director of Dow Chemical, in September), as well as considerable public outreach.
2. Complete efforts to expand the section's geographical area to selected northern Michigan counties by the end of 2005.
3. Expand financial support discussions with local industries and funding organizations and through the Innovative Program Grants in collaboration with other sections and divisions.
4. Ensure excellence in our program offerings in times of shrinking budget, especially in our Fall Scientific Meeting.

Goals of the Chair

1. Assist and energize the Younger Chemists Committee by ensuring excellent leadership and giving them the personal support and resources they need to be effective. This is the best venue for our Section to recruit younger chemists into ACS.
2. Support each program by attending each event and assisting where necessary, especially with the Fall Scientific Meeting, to ensure program excellence.
3. Assist the treasurer, Gary Spilman, to simplify the bookkeeping process and add more clarity to budget reports.
4. Build a partnership between our Section and a division or another local section in order to receive an Innovative Program Grant to help fund our Fall Scientific Meeting in 2005.

Spring Science Education Recognition Dinner

Wednesday, April 27, 2005

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

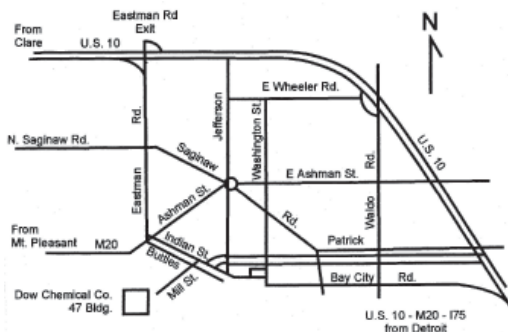
47 Building Cafeteria, The Dow Chemical Company
Midland, Michigan

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 thirteenth 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 13, 2005. You may also register by

email to Minghui Chai (chai1m@cmich.edu) 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 Minghui Chai at (989) 774-3955.



To reserve a place at the 2005 Spring Science Education Recognition Dinner, return this form with payment by **April 13, 2005**, to Minghui Chai, Central Michigan University, Dow Science Bldg. 342, Mt. Pleasant, MI 48858.

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."

Update on Mid-Michigan Technician Group

By Debbie Bailey and Becky Swanson

The Mid-Michigan Technician Group (MMTG), an ACS Technician Affiliate Group (TAG), continues to focus on giving back to our members. In 2004, MMTG offered an 8-week class on polymer science, a lunchtime seminar on “Smart Goals,” and a 4-hour workshop on Skill Assessment. In addition, we had three social events. The first was dinner at a traditional Japanese steak house (where they cook the food right in front of you), the second was a co-sponsored picnic with the Midland Younger Chemists Committee, and the third was a year-end luncheon at a local Chinese restaurant.

MMTG also continued our strong community outreach programs in conjunction with the Midland Section of ACS. One event that stands out is “Professional Day” at the Midland Fair in August. The purpose of Professional Day is to show appreciation to our members and their families and provide information on ACS, along with several of its affiliated groups, and their outreach to members and the public. Science demonstrations were also a big part of this day and were open to the public. Over 400 people participated in Professional Day, which was our best turnout yet! Thanks to Wendy Mathews for chairing this event!

The other event that stands out is Sci-Fest in October. Sci-Fest is conducted in conjunction with National Chemistry Week. This year’s theme



Members of MMTG enjoy a night out at Genji’s Restaurant in Midland.

was “Health and Wellness.” This event was open to the public and was for kids of all ages. Several local organizations came out to provide information and demonstrations on health and wellness. Approximately 1000 to 1500 kids and parents participated in this event. Thanks to Dave Stuckles for chairing this event!

Each year MMTG presents an award to a deserving student enrolled in the Chemical Technology program or the Chemical Processing program at Delta College. The 2004 award was presented to Fred Jackson at the Midland Section ACS Spring Science Education Awards Banquet. Fred’s credentials are truly outstanding. Along with his full-time college schedule, he worked as a co-op for Dow Chemical (5 years). During his time at Dow, he was dedicated, self-motivated, and had a professional attitude. He graduated with his Chemical Processing degree and is continuing his education in the Chemical Technician program. Congratulations, Fred!

So far in 2005, MMTG has held one lunchtime seminar, “Everyone Wins, How to Turn Conflict into Collaboration,” presented by James McDaniel from EnviCare Consulting Inc. This event was co-sponsored with IAPP (International Association of Administrative Professionals). This program reviewed how to recognize and deal with common conflict situations in the workplace. MMTG looks forward to planning other activities for 2005 at our upcoming monthly meetings, which are held at either Dow Corning or Dow Chemical. If you have any program ideas you would like to see offered, please e-mail Rebecca Swanson at raswanson@dow.com.



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ACS Tour Speaker

Blomster to Speak on Drugs from Plants

The Central Michigan University Department of Chemistry and the Midland Section of the American Chemical Society are pleased to present the Spring 2005 ACS Tour Speaker, Dr. Ralph N. Blomster from the University of Maryland at Baltimore. The seminar title is "Plants as a Source of Drugs." The presentation will be made on Monday, March 28, at 4:00 p.m., Dow Science Building, Room 175, Central Michigan University. There will be a reception preceding at 3:30 p.m. in Room 264.



Anyone wishing to have dinner with Dr. Blomster at Mountain Town Station in Mt. Pleasant should contact Choon Lee at lee1cy@cmich.edu or 989-774-3289. Please RSVP by March 21. Dinner will begin at approximately 5:30 p.m. Meals may be ordered from the menu at your own expense.

Abstract

It is remarkable to what a large extent medicinal treatment for many centuries rested on the use of plants. Plants have given the field of medicine many useful drugs, such as digitalis, cinchona, ergot, and opium, to mention a few. Humankind's first investigation of the plant kingdom was prompted by a dependence on plants as a source of food. From varied observations of the effects of plants on themselves, human use of plants for arrow and weapon poisons, as hallucinogens, and as medicaments slowly evolved. In the early days, witch doctors, apothecaries, and physicians used plants to treat disease, elevate mood, and relieve pain. As the art of chemistry evolved, humans learned to isolate the pure chemicals that caused the medicinal effect and use them. Opium yielded codeine and morphine to relieve pain, and digitalis provided digitoxin for the heart. Ergot made available ergonovine and ergotamine for migraine and childbirth and, paradoxically, the synthetic LSD as a hallucinogen.

The presence of such a wide and diversified group of compounds has prompted the search for plants that would yield new narcotics, heart drugs, psychoactive compounds, and anticancer compounds. Although many drugs are produced synthetically, natural products have served as the molecular model for their starting point. Today, some 40% of all prescriptions include compounds of natural origin.

Many diseases still cannot be effectively treated with current therapy.

How does one find effective agents for these diseases? Plants contain many more compounds than chemists can synthesize. The more than 250,000 uninvestigated higher plant species on the face of the Earth are a source of potential new and effective drugs. However, in the face of the destruction of the Amazon rain forest, time grows short.

Biographical Sketch

Education: B.S. 1953 Massachusetts College of Pharmacy; M.S. 1958 University of Pittsburgh; Ph.D. 1963 University of Connecticut

Positions Held: Instructor in Biological Sciences, University of Pittsburgh 1958-1959; Fellow, American Foundation for Pharmaceutical Education 1959-1961; Lederle Research Fellow 1961-1962; Assistant Professor of Pharmacognosy, University of Pittsburgh 1963-1966; Associate Professor of Pharmacognosy, University of Pittsburgh 1966-1968; Professor and Chairman, Department of Pharmacognosy, University of Maryland at Baltimore 1968-1979; Professor and Chairman, Department of Medicinal Chemistry/Pharmacognosy, University of Maryland at Baltimore 1979-1989; Professor, Department of Biomedical Chemistry, University of Maryland at Baltimore 1989-1996; Professor Emeritus, Department of Pharmaceutical Sciences, University of Maryland at Baltimore 1996-present; Invited Speaker, American Chemical Society, Speakers Bureau 1972-present

Teaching Interests: Undergraduate: pharmacognosy, microbiology, antibiotics, natural products chemistry, herbalism and alternative medicine Graduate: biosynthesis, phytochemistry - isolation of biologically active substances from plants, chromatographic methods, isolation procedures, phytochemical screening, chemotaxonomy

Areas of Research Interest: Phytochemistry; medicinal folklore evaluation; phytochemical screening; collection and extraction of native plants for biological testing; indexing, storage, and retrieval of phytochemical literature; drug plant exploration in primitive geographic areas; plant tissue culture and biotransformations

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MMI Announces 2005 Turner Alfrey Visiting Professor Course

By Steve Keinath

Polymers and the Mesoscale: Rational Approaches toward Materials with Nanoscale Order and Improved Properties

June 6–10, 2005, Monday–Friday, 3:00–6:00 p.m.

Professor Markus Antonietti, director at the Max Planck Institute of Colloids and Interfaces, Golm Research Campus, and professor at the University of Potsdam, Germany, is the 2005 Turner Alfrey Visiting Professor at Michigan Molecular Institute. Prof. Antonietti will offer a course on “Polymers and the Mesoscale: Rational Approaches toward Materials with Nanoscale Order and Improved Properties.” The general motivation for the course and an outline of the course topics are given below.



General Motivation

In recent years both basic research and industry have learned that the control of material mesostructure offers the most promise for improving material properties based on conventional starting materials. This is the application of the principle of biomimetics. Nature makes optimal use of every molecule by controlling structure over all scales. Today, materials chemistry is slowly able to follow this path.

It is the purpose of this course to introduce recent chemical approaches that allow rational control of at least the next length scale beyond the molecule—the mesoscale—which usually covers structural features from 2 nm to 100 nm. Although polymeric systems play a central role in these approaches, the extension to inorganic materials and nanohybrid formation follows naturally.

Course Outline

1. Introduction
 - a. Why meso, or from biomimetics to Japanese swords
2. Heterophase Reactions
 - a. Microgels: Simple mimics of dendrimers
 - b. Novel techniques of emulsion polymerization
 - c. Polymerization of microemulsions
 - d. Materials synthesis using miniemulsions

3. Polymer Self Assembly
 - a. Amphiphilic block copolymers
 - b. Ionic self-assembly (ISA)
 - c. Chimera polymers: Hybrid structures with peptides
4. Inorganic Building Blocks
 - a. Synthesis of inorganic particles in organic solvents
 - b. Ionic liquids
 - c. Polymer controlled crystallization
 - d. Biomineralization
5. Mesoporous Materials
 - a. Nanocasting
 - b. Nanocoating
 - c. Crystalline thin functional oxides by evaporation induced self-assembly (EISA)
6. Vision and Outlook
 - a. Nanochemistry: New reactions by compartmentalization
 - b. New surfactant structures: Dead end of an industrial evolution?

Details for 2005 Turner Alfrey Visiting Professor Course

- Course 1032: Polymers and the Mesoscale: Rational Approaches toward Materials with Nanoscale Order and Improved Properties
- Lecturer: Prof. Markus Antonietti, Director at the Max Planck Institute of Colloids and Interfaces, Golm Research Campus, and Professor at the University of Potsdam, D-14424 Potsdam, Germany
- Location: Lecture Hall (Room 101), Michigan Molecular Institute, 1910 West St. Andrews Road, Midland, MI 48640
- Time: Formal lectures: Monday-Friday, June 6-10, 2005, 3:00-6:00 p.m.
- Fee: There is no fee for auditors if they belong to organizations that are financial sponsors of the Turner Alfrey Visiting Professor program: Dow Chemical, Dow Corning, Saginaw Valley State University, Central Michigan University, Michigan State University, and Mid-Michigan Section of the SPE. For all others, a course fee of \$300 will be required at registration. *All participants, however, must register.*
- Registration: Preregistration is required one week in advance with the Registrar by calling (989) 832-5555, ext. 555 or by e-mail at registrar@mmi.org.

Professor Dr. Markus Antonietti

Director at the Max Planck Institute of Colloids and Interfaces, Golm Research Campus, and professor at the University of Potsdam, D-14424 Potsdam, Germany.

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E-mail markus.antonietti@mpikg-golm.mpg.de

Web site <http://www.mpikg-golm.mpg.de/kc/people/antonietti/>

Education

- 1978 Abitur, Rhabanus-Maurus-Gymnasium, Mainz
1978–1979 Studies of Chemistry and Physics at the University of Mainz
Jun. 1983 Diploma of Chemistry
Jul. 1985 Doctorate of Natural Sciences (summa cum laude): “Diffusion in Topological Constraint Polymer Melts,” with Professor Dr. H. Sillescu
Jan. 1990 Habilitation in Physical Chemistry: “Microgels with a Special Architecture”

Professional Experience

- July 1985 Hochschulassistent (Assistant Professor) in Mainz
Feb. 1991 Hochschuldozent (Associate Professor) in Mainz
Sep. 1991 Full Professor at the Philipps-Universität in Marburg
Oct. 1993 Director at the Max Planck Institute of Colloids and Interfaces, Golm Research Campus, and Full Professor at the University of Potsdam, Germany

Honors and Awards

- 1981 Member of the “Studienstiftung des Deutschen Volkes”
1983 Scholarship of the funds of the chemical industry of Germany
1984 Adolf-Todt-Scholarship
1986 Science Award of the “Freunde der Universität Mainz”
1988 Science Award of the “Böhringer-Ingelheim-Foundation”
1990 Gerhard-Hess prize of the German science foundation
1992 Faculty award of the funds of the chemical industry of Germany
1997 Honorary degree (Dr. sci. h. c.) of Clarkson University, Potsdam, New York
1998 Guest Professor in Lovain La Neuve, Belgium
2000 Member of the “Berlin-Brandenburgische Akademie der Wissenschaften”
2003 Goldschmidt-Elhuyar-Award of the Real Sociedad Espanola de Quimica

Board Service

- Editorial board member of: *Colloid & Polymer Science*, *Reviews in Molecular Biotechnology*, *New Journal of Chemistry*, *Nachrichten aus der Chemie*, *Progress in Polymer Science*, *Langmuir*, *Chemistry of Materials*, and *Soft Matter*.
- Executive board member of the *Macromolecular Journals* of Wiley-VCH and of the RSC Journals.

Professional Society Service

- Vice president of the “Berlin-Brandenburgischer Verband für Polymerforschung”

Publications and Patents

- Author or co-author of about 300 scientific papers, including book chapters, and 20 patents.

Research Interests

- Synthesis and properties of functional polymers
- Polymerization in microemulsions and lyotropic phases
- Amphiphilic block copolymers
- Ionic self-assembly
- Organic/inorganic hybrids
- Porous materials
- Polymer controlled crystallization processes
- Functional nanoparticles
- Colloidal diagnostics and drug carriers
- Cosmetic formulations
- Optical and x-ray methods for the characterization of polymers and colloids
- Hydrodynamic characterization techniques for colloids and interacting polymers

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SPE/ACS Joint Technical Society Dinner Meeting

Polymeric Nanoparticles: Future Challenges and Possibilities

Professor Markus Antonietti

Director, Max Planck Institute of Colloids and Interfaces, Golm Research Campus, and Professor, University of Potsdam

Heterophase polymerization techniques (HPTs) have not only created a significant share of industrial wealth, but up to now they have also experienced an unbroken renaissance in terms of basic research. This is driven on one hand by the use of water as a very favorable and environmentally friendly “solvent” or production aid. On the other hand, HPTs inherently make use of most actual and some of the most fashionable concepts in materials science today, such as “structure formation by self-assembly” (e.g., in film formation), “nanotechnology” (provided by the inner structure of latexes and their nanoscale size), and “nanocomposites and hybrid materials” (the addition of inorganic nanostructures into emulsion polymerization recipes). HPTs indeed represent the most feasible and nearest term approach of nanotechnology toward supplying new concepts and promises for materials research and for providing for the needs of society. This presentation will offer a personal outlook on some of the challenges and perspectives of the field.

Date: Tuesday, June 7, 2005

Time: Social 6:30 p.m.

Dinner 7:00 p.m.

Program 8:00 p.m.

Location: NADA Center, Northwood University, 4000 Whiting Drive, Midland, MI 48640, 989-837-4277

Cost: \$23.00 for SPE and ACS members with reservations

\$13.00 for SPE and ACS student members with reservations

\$15.00 for other students with reservations

\$25.00 for others or SPE and ACS members without reservations

Reservations: Reservations can be made via phone, fax, or e-mail to Randi Merrington at MMI. They must be received no later than June 2, 2005. Phone: 989-832-5555, ext. 555; Fax: 989-832-5560; E-mail: merringtonr@mmi.org

Points to be covered in the presentation include:

- The extension of HPTs to other polymer reactions, such as ionic and coordination polymerization, polyaddition, and other types of polymer reactions.
- The control of HPT processing by online techniques leading to “latex synthesizers”, robots designed to generate the colloidal counterpart of sequenced peptides.
- New, continuous latex synthesis technologies.
- The generation of high value polymers via latexes, such as block copolymers and polymeric amphiphiles.
- The generation of colloidal hybrid particles that cross the borderline between polymer latexes and inorganics, dyes, and other active compounds.
- Latex-based electronic inks for functional microprinting.

Eight Weyenberg Grants Awarded in 2003

The Midland Section offers small travel grants to help students present their work at scientific meetings. Since 1999 the grant has been known as the Donald R. Weyenberg Memorial Student Travel Grant in honor of Don Weyenberg, a pioneering research chemist who strongly promoted science and believed in the value of students attending scientific meetings and conferences to present their work. During 2004, eight travel grants of \$250 each were given to students from universities in the five-county area of the Midland Section.

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2005 Teacher Innovation Awards Announced

By Anne DeBoer

The 2005 Teacher Innovation Awards Program offers \$1000 awards to teachers in specific local areas to help improve student access to math, science, and technology education at the K-12 level. The Dow Corning Foundation and the ACS/Midland Section recognize that *innovation* is critical for inventing new approaches to math, science, and technology education, as well as for improving old ones. Teachers are the key to what happens in any classroom, and our goal with this awards program is to help facilitate new learning experiences for students by enhancing the skills and equipment teachers have at their disposal. Awards are available to teachers in the following counties: (Indiana)



Noble and Switzerland counties; (Michigan) Bay, Midland, and Saginaw counties; (Kentucky) Carroll and Hardin counties; and (Georgia) Guilford County. The application form and other information are available on the Midland Section web site <http://membership.acs.org/m/midl/>. Please review the application form carefully before completing it, so you can answer the questions posed thoroughly. The award money can be used to purchase equipment, resources, training, or expertise. The applica-

tion form should not be considered a purchase order for any of these things. Applicants must document their plan to integrate the award purchase into the curriculum and demonstrate how this plan will improve students' access to math, science, and technology education. Specific goals and objectives should be recorded, along with how progress will be measured. A budget summary of how the award will be spent should also be included.

All the above information will be used to evaluate the applications in a grid to determine which applicants will receive awards. Key considerations: innovation, number of students impacted and for how long, replicability, probability of success, clear measurement and reporting plans.

The application deadline is May 15, 2005. All applications will be evaluated between May 16 and June 30. Winners will be announced during the first week of school, whenever that occurs in August or September, and checks will be presented in person wherever possible.

Please contact Anne DeBoer at a.m.deboer@dowcorning.com or 989-496-6290 if you have any questions.

It's Payback Time!

By Wendell and Marcia Dilling

Madeleine Jacobs, ACS executive director and past editor of *C&EN*, recently wrote about some special recipients of and donors to the ACS Project SEED and Scholars programs (*Chemistry*, Winter 2005, p. 5). She concluded with the following: "I'd like to close with one more success story. My parents were poor and did not have money to send me to college. Fortunately, I won a fully endowed, four-year, all-tuition scholarship to George Washington University. I never knew the individual who made that scholarship possible. But it is the reason that I give money each year to George Washington University, and it is the reason that I give money to Project SEED and the ACS Scholars program. I know that individual generosity can change the lives of individuals in ways that we can barely imagine. The success stories of Julia, Mario, Steven, Ricardo, Alex, and thousands of others bear that out. I hope you will join me in supporting these and other educational programs to help create our future heroes of chemistry and the chemical profession."

Reading Madeleine's comments reminded us of help given to us during our early years of college. We both received modest scholarships from Manchester College in Indiana that helped start us on our way to becoming chemists. Like Madeleine we feel an obligation to help other students as we were helped. To that end we have established scholarships at Manchester College, one of which is specifically targeted towards chemistry majors. We're also glad we are able to support the Midland Section Endowed Scholarship Fund, a worthy program established in 2003 that will help local students towards their goals of pursuing careers in chemistry. We encourage other Midland Section members to join us in supporting the Midland Section Scholarship. Information about the scholarship and donations is available from the Midland Area Community Foundation at 989-839-9661.



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More Success Stories from Project SEED

Article and photos by Peggy Hill

The summer of 2004 found three area high school students engaged in chemical research in the mid-Michigan area as part of the Project SEED program. The Midland Section provides a substantial amount of the funding needed to support these students. In addition, a few Midland Section members volunteer their time to guide these students in their research projects. These preceptors work directly with their student on a day-to-day basis for 8 to 10 weeks, providing them with a research project, supervising their work, and helping them prepare a written report and a poster to be presented at the Section's annual Fall Scientific Meeting.

Our SEED students are smart, conscientious, and sincere. They find that the exposure to a research environment is a very useful experience as they make plans for future careers. Since many of these students do choose a science-based career, their SEED experience gives them more background and awareness than they would otherwise have.

This year, three SEED students worked with preceptors at Saginaw Val-



Kristin Beach investigated the use of siloxanes as a coatings additive. (2003 photo)



Laura Schmidt used an NMR for her research project with Central Michigan University. (2003 photo)

ley State University, Dow Corning, and Central Michigan University. Their research topics are summarized below.

One of our SEED II students, Laura Schmidt, entered the freshman class at Central Michigan University this fall. Another SEED II student, Kristin Beach, began her fall semester as a freshman at Delta College. SEED I student Ryan Thomas is completing his senior year at John Glenn High School in Bay City and plans to return to SVSU for the summer of 2005 as a SEED II student.



Ryan Thomas worked at Saginaw Valley State University on preparing biodegradable products from agricultural waste.

SEED I Student

Ryan Thomas
John Glenn H.S.

Preceptor

Dave Karpovich
Dept of Chemistry, SVSU

Project: "Preparation of Biodegradable Composite Materials from Agricultural Waste and Food Products"

SEED II Students

Kristin Beach
Midland Christian School

Preceptor

Frances Fournier
Dow Corning

Project: "An Investigation into the Use of Siloxanes as a Coatings Additive"

Laura Schmidt
Shepherd H.S.

Minghui Chai
Dept of Chemistry, CMU

Project: "Probing Interactions between Cyclodextrin and Natural Amino Acids via NMR"

Respond to your ChemCensus!

By Ann Birch

If you are a member of the Midland Section you recently received the 2005 ChemCensus from National ACS. Now, if you're like me, you have a tendency to toss anything that looks remotely like a promotion. Don't toss this! The census is only taken every 5 years, and it provides valuable information that enables ACS to keep track of and respond to the welfare and needs of members.

In Past Issues of *The Midland Chemist*

By Wendell L. Dilling, Midland Section Historian

- **40 Years Ago This Month**—E. L. Graham in his “The Professional Chemist” column reporting on Retirement Programs stated that several California ACS sections “were urging the development of a system of essentially complete ‘portability’ of retirement benefits and other fringe benefits from company to company. This suggestion appears to many (including myself) to be impractical and instead of enhancing the professional image of chemists and chemical engineers, such a proposal could create the opposite impression.”
- **30 Years Ago This Month**—The front cover shows the 1974 award plaque received by the Midland Section for outstanding performance by local sections in 1973. (This was the first such award received by the Midland Section. The Section did not receive another of these awards until 1990 and in the following 13 years has won eight more.)
- **20 Years Ago This Month**—The 1985 E. C. Britton Symposium was held in Midland on April 18 and 19. The purpose of the symposium is to provide academic personnel with some exposure to modern industrial chemistry and to encourage communications between academia and industry. This year over 35 professors from various colleges and universities were invited to attend the symposium. To facilitate further interaction, these visiting professors were housed in the homes of area professionals during their stay in Midland.
- **10 Years Ago This Month**—The Spring Science Education Recognition Event will be Monday, May 22, 1995 from 5:00 pm to 9:30 pm at The Dow Chemical Company, 47 Building Cafeteria, in Midland. The ACS Midland Section will be honoring individuals for outstanding achievement in science/chemistry teaching as well as participation in science education programs.

Important Dates on the ACS Midland Section Calendar

- Mar. 28 Dr. Blomster, ACS Tour Speaker, "Plants as a Source of Drugs," CMU Lecture Series, Central Michigan University, Dow 175, 4:00 p.m., reception preceding in Dow 264 at 3:30 p.m. (Choon Y. Lee, lee1cy@cmich.edu)
- Apr. 11 Midland Section board meeting, Delta College Midland Center, 7:00 p.m., Room 10
- Apr. 13 Deadline for reservations for 2005 Science Education Recognition Dinner (Minghui Chai, 989-774-3955, chai1m@cmich.edu)
- Apr. 27 2005 Science Education Recognition Dinner, Dow Chemical 47 Bldg. Cafeteria, 6:00 p.m. (Minghui Chai, 989-774-3955, chai1m@cmich.edu)
- Apr. 29 Dr. Sivaram Arepalli, "Carbon Nanotube Activities at NASA-Johnson Space Center," CMU Lecture Series, Central Michigan University, Dow 171, 11:00 a.m. (Choon Y. Lee, lee1cy@cmich.edu)
- May 9 Midland Section board meeting, Delta College, University Center, 7:00 p.m., Bergstein Room
- May 9 Deadline for June issue of *The Midland Chemist*
- May 15 Deadline for Teacher Innovation Awards (Anne DeBoer, 989-496-6290, a.m.deboer@dowcorning.com)
- May 18–21 Fourth International Dendrimer Symposium, Central Michigan University (<http://www.ids4.org>)
- May 30 Deadline for pre-registration for Turner Alfrey Short Course (Registrar, 989-832-5555, x555, registrar@mmi.org)

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