



**AMERICAN INSTITUTE OF
CHEMICAL ENGINEERS** ...Serving Chemical Engineers Who Serve the World

Mid-Michigan Section Newsletter

Editor: Eric Stangland (voice mail: 989-636-0517, fax: 989-638-9674, e-mail: cestangland@dow.com)

Title:	AIChE Mid-Michigan Section Newsletter
Issue date:	August 29, 2003
Statement of frequency:	Published irregularly
Address:	American Institute of Chemical Engineers Mid-Michigan Section P.O. Box 2496 Midland, MI 48641-2496
Issue no.:	Volume 9, Issue 1
Website:	http://www.mmaiche.org

In This Issue...

Words from the Chair...Survey Input Is In.....	2
Congratulations...Victor Atiemo-Obeng.....	2
2003-2004 Fall Kick-Off Meeting	3
The University of Michigan Fall 2003 Graduate Credit Course In Chemical Engineering ..	4
2003 ACS Midland Section Fall Scientific Meeting – Call for Posters.....	5
Mid-Michigan Section Recognizes Its Own at May 2003 Banquet	6
Congratulations to New 50-year AIChE Members.....	10
Update on National AIChE Financial Challenges	10
Mid-Michigan Section Thanks Manoj Agrawal for Service.....	11
Attention Budding Professional Engineers.....	12
Great Ideas for New Course Offerings Needed.....	12
Sci-fest 2003...Earth's Atmosphere and Beyond	13
Expanded Career Services for AIChE members	13
AIChE Announces Upcoming Record-Breaking Annual Meeting.....	14
Treasurer's Report for the 2002–2003 Fiscal Year.....	15
American Institute of Chemical Engineers Mid-Michigan Section 2003-2004 Officers	16

Words from the Chair...Survey Input Is In

Hello everyone!

It's hard to believe, but it's that time of the year again already. As the new school year starts, we also start a new year of programming events for the local Mid-Michigan AIChE Section.

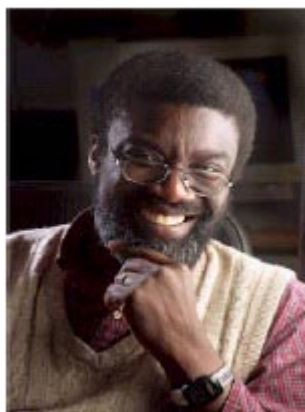
We would like to thank those of you who completed the survey sent out earlier this summer. The responses were very informative for us. Some of the trends were anticipated while others were somewhat surprising. As expected we are all busy people in this day and age. The majority of the responses favored shorter lunch sessions rather than dinner meetings. Respondents were also very interested in tours of other industrial sites in the area. Another common theme was an interest in more activities in which the entire family can participate.

We will be looking at how we can best meet these needs throughout our programming year. If you have additional ideas, please contact us. Our officer contact information can be found either on our website at <http://www.mmaiche.org> or starting on page 16 of this newsletter.

We would also like to invite you to join us for our kick-off meeting. Rick Gross, Corporate Vice President of Research and Development at The Dow Chemical Company, will be sponsoring this event at the Country Club on September 11 from 5:30- 8:00 pm. More details can be found on page 3 of this newsletter. Please join us to learn more about the Section and give us your input on future activities.

Tami Heilman
Mid-Michigan AIChE Section Chair

Congratulations...Victor Atiemo-Obeng



Editors Note: The following article was taken from The Dow Chemical Company, Fluid Mechanics and Mixing April 2003 Newsletter. Victor is a long-standing member of the Mid-Michigan Section Executive Committee, and we congratulate him on this award.

Victor Atiemo-Obeng has received the NOBCCChE 2003 Percy L. Julian Award. Victor is a Dow Chemical Scientist aligned with the Fluid Mechanics and Mixing Group. This award is the most prestigious award presented by the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCCChE). It is named after Dr. Percy Lavon Julian, an African-American legend and renowned chemist who obtained his BS in Chemistry from Depaw University in 1920. After facing various discriminatory practices in the United States' educational system in the 20's, he went on to receive a Ph.D. from the University of Vienna in 1931. Upon returning to the United States, he worked in academia, industry and founded his own research laboratory. Though he had over 100 patents and 200 scientific publications, his most notable contribution was in the synthesis of steroids from soy products; which led to the discovery of cortisone. The award recognizes Victor's significant contributions in applied engineering science.



AMERICAN INSTITUTE OF
CHEMICAL ENGINEERS

The Mid-Michigan Chapter of American Institute of Chemical Engineers
cordially invites you to hors d'oeuvres and drinks
Thursday, September 11th, 2003
Midland Country Club
Main Dining Room

2003-2004 Fall Kick-Off Meeting

Sponsor: **Richard M. Gross**, Corporate Vice President of Research and Development at The Dow Chemical Company

Topic: Join this year's Mid-Michigan AICHE Officers and Committee chairs for our annual Kick-Off event. For this year's meeting, we will be having a special guest - Rick Gross, Vice President of Research and Development at The Dow Chemical Company. As a section, we would like to thank in advance Rick and Dow Chemical Research and Development for their sponsorship of the meeting.

We will be discussing open positions and a number of volunteer opportunities.

Biography: Richard Gross joined Dow in 1974 in the Hydrocarbons and Energy Research area of Michigan Division R&D. In 1979 he transferred to the Louisiana Division where he spent several years in coal gasification research before returning to Midland. Gross was technical director for Consumer Products Research in Dow's Michigan Applied Science and Technology Laboratories. He was also director of R&D and Technical Service and Development for Chemicals and Metals. In 1992 he was named the R&D director for North American Chemicals and Metals/Hydrocarbons R&D



Date: Thursday, September 11th, 2003

Times: 5:30- 7:00 PM Social
6:00- 6:30 PM Richard Gross (benefits of a professional society, Q&A)
7:00- 8:00 PM Officer Introductions, Discuss Open Committee Positions

Location: Midland Country Club, Main Dinning Room,
1120 W. St. Andrews Road, Midland
Business Casual Attire - Please no blue jeans or tee shirts.

Cost: No cost to you.

RSVP: Please contact Bedar Islam with your reservation by e-mail at (bbislam@dow.com), by 4:00 pm on **Wednesday, September 3rd**.

The University of Michigan
Fall 2003 Graduate Credit Course In Chemical Engineering
Midland, MI

ChE 508 – Applied Numerical Methods, 3 credit hours

- Instructors: Professor Brice Carnahan, carnahan@umich.edu, (734) 764-3366
Dr. Steven Ceplecha, SPCeplecha@dow.com, (989) 638-1333
- For more information: Contact Susan Hamlin
U-M Chemical Engineering Graduate Program Office
Phone: (734) 764-2383
Email: hamlins@umich.edu
- Dow Contact: Dr. Ray Wright
raywright@dow.com
Phone: (989) 638-1334
- When: Lectures: Mondays, 5:00 – 7:00 p.m.
Sept 8 through Dec 8, 2003
Problem/Workshop/exam sessions: Thursdays, 5:00-6:00 p.m. from Sept 11 through Dec 11 (except Thanksgiving Day, Nov. 27)
- Where: Rose Conference Room – 47 Building, Midland, MI
- Topics, Dates: Functional approximation - Sept. 8 (BC), Sept. 15 (SC)
Integration - Sept. 22, 29 (SC)
Solution of nonlinear equations - Sept 29, Oct. 6 (SC)
Simultaneous linear equations - Oct. 13, 20 (SC)
Simultaneous nonlinear equations - Oct. 27 (SC)
Ordinary differential equations - Nov. 3, 10, 17 (BC)
Partial differential equations - Nov. 24, Dec. 1, 8 (BC)
- Textbook: Numerical Methods for Chemical Engineers (1996) by Carnahan and Wilkes.
Printed copies will be available for purchase (approximate cost, \$ 40.) at the first class meeting on Sept. 8. Text will be supplemented by class handouts.
- Description: Numerical approximation, integration, and differentiation. Single and simultaneous linear and nonlinear equations. Initial-value methods for ordinary differential equations. Finite-difference methods for parabolic and elliptic partial differential equations. Implementation of numerical methods on the digital computer, with applications to fluid flow, heat transfer, reactor engineering, and related areas.
- Registration: Register during class, 9/8/03
- Fee: \$ 2725/course with Instate status*. Non-resident tuition is \$4867/course.
* Residency application must have been approved or be approved by the Residency office. See website, <http://www.umich.edu/~regoff/resreg.html>.

2003 ACS Midland Section Fall Scientific Meeting – Call for Posters

Time: Friday, Oct. 17, 2003 (Registration starts at 10:00 am and the meeting ends at 4:45 pm. No registration fee and lunch provided)

Please consider presenting a poster at the Fall Scientific Meeting. Abstracts are being accepted now through **September 18th**. All areas of chemistry and chemistry related topics are invited.

ABSTRACT FORMAT

Each abstract should contain; title, author(s) and author(s) affiliations, and abstract body text.

The format specifics:

- Single spacing with blank line between title and author AND between author and abstract body text
- Times New Roman size 12 font (or comparable)
- Submitted as an e-mail attachment in either Microsoft Word or Adobe format
- Please try to limit the abstract to 225 words
- Underline the presenting authors name (note, the e-mail address of the submitter will be the default contact person for all additional information)
- E-mail abstracts to: dale.lecaptain@cmich.edu

More detailed information can be found on the website

<http://membership.acs.org/m/midl/fsm03/index.htm>.

Address questions to: Dale LeCaptain, Department of Chemistry, Central Michigan University (989-774-3993, dale.lecaptain@cmich.edu).

Mid-Michigan Section Recognizes Its Own at May 2003 Banquet

On May 15, 2003, the Mid-Michigan Section held their annual awards banquet at the Ashman Court Hotel in Midland. The keynote speaker, **Richard M. Gross**, Corporate Vice President of Research and Development, The Dow Chemical Company, explored "The Chemical Industry: The First Knowledge Industry" in an excellent presentation. Highlighted were the changes in the knowledge base of the chemical industry in the 50 years since World War II.

David Tascarella presented our seventh consecutive **Mid-Michigan AIChE Chemical Engineering College Scholarship**. This \$500 award given to a local student pursuing a chemical engineering education is renewable for up to four years. The selection committee members, **Erin Lacher**, **Joshua Lien**, **Verna Talcott**, and **Steve Waier** along with David commented on the difficulty of this year's decision due to another strong applicant. This year's 2003 AIChE Scholarship recipient was **Melissa Beth Roller** from **Essexville Garber High School**. Melissa was the valedictorian of her graduating class with a 4.0 GPA. She was a 3-sport varsity athlete in tennis, volleyball, and track and was the team captain for all three sports her senior year. Melissa was also active in the Duke+ committee, several volunteer activities, and has participated in the HOBY leadership conference. Interestingly, Melissa was a Michigan Tech summer scholarship winner from our section two years ago as a 10th grader... and she still wants to be a ChE! She has also been recognized as a recipient of the Dow Chemical Distinguished Science Student award, selected as a MHSAA Scholar athlete for all three of her sports, and was chosen as a Detroit Free Press scholar athlete this past year. Melissa plans to attend **Michigan State University** where she will major in chemical engineering.



Dave Tascarella and Melissa Beth Roller



From l. to r.: Erik Ohare, Ramajan Grose, Caly Bodeis, Richard Gross

Each year, our chapter offers scholarships to local ninth through eleventh-grade students who wish to attend the **Michigan Technological University (MTU) Summer Youth Program Career Exploration (SYP)**. This scholarship covers room and board, plus a \$100 dollar travel allotment. The SYP, which MTU has offered since 1973, gives students a chance to attend weeklong career explorations in fields ranging from society & culture, to math, engineering, and science. The Mid-Michigan Section provides these scholarships with the hope of encouraging more students to consider professional careers in math, engineering, and science. For more information on the MTU Summer Youth Programs, visit <http://youthprograms.mtu.edu>. Erik Ohare presented two winners of this year's 18th Annual SYP scholarships, **Caly Bodeis** and **Ramajan Grose**. Caly is a junior this year at

Meridian High School and attended the Genetic Engineering program at MTU in July. Ramajan is a junior this year at **Midland High School** and attended the Chemical Engineering program at MTU also in July. Both students are extremely active in their schools and community, and show quite an interest in continuing their education in science and engineering. The scholarship committee **Victor Atiemo-Obeng, Jim Broad, Alan Ichikawa, Norm Lake, Megan McHenry, Dennis Phillips, Frank Shisler,** and Erik once again congratulate the winners and hope they had a wonderful learning experience.



Dr. James Hand

Michael Molnar presented the **Chemical Engineer of the Year Award for 2002-2003** to **Dr. James Hand**. Dr. Hand first studied chemical engineering at the Newark College of Engineering, receiving a Baccalaureate Degree in 1966. Dr. Hand went on to receive his doctorate in chemical engineering from the University of California at Berkeley in 1971, and was an associate professor of chemical engineering at the University of Michigan for 11 years before joining the Dow Corning Corporation in 1982. He has spent his Dow Corning career in Process Engineering, where Jim has made significant contributions to polymerization technology and has pioneered numerical modeling techniques for many of Dow Corning's manufacturing processes. He has led numerous engineering groups in Dow Corning, most notably in the areas of reaction engineering, process control and simulation, and separations and is one of a select

group of individuals to receive the title of Process Engineering Scientist at Dow Corning Corporation. As of 2001, Dr. Hand has taken on the responsibility as the platform leader for biocatalysis and bioprocessing within Dow Corning's Bioscience program.

Over the course of his diverse career, Dr. Hand has participated in the National AIChE organization, presenting numerous papers during his tenure at the University of Michigan. In 1978 he served as program director for thermodynamics and mass transfer for the National Science Foundation. While at Dow Corning, he has served as Director-At-Large for the Mid-Michigan Local AIChE Section. His accomplishments as a leader within the Dow Corning Corporation are numerous, having served as chairperson for the Dow Corning Technical Exchange Society and Dow Corning Technical Conferences, acted as university recruiter for University of Michigan, Massachusetts Institute of Technology, and University of California-Berkeley; and co-coordinated the University of Michigan's Masters Degree Extension Program in Midland on the behalf of Dow Corning.

Mike Durisin introduced **Michael Molnar** as the Mid-Michigan Section **2002-2003 Young Chemical Engineer of the Year**. Michael earned his chemical engineering degree from Carnegie Mellon University in 1995. More recently he received his MSE degree in chemical engineering in 2000 through the part-time program that Dow Chemical and Dow Corning coordinate with the University of Michigan. Michael began his career with Dow Corning in 1994 as a summer intern. After graduating from Carnegie Mellon he joined Dow Corning's Hemlock Semiconductor Corporation (HSC) and has worked there since hiring. His current title is Associate Process

Engineering Specialist. At HSC he is a key contributor to the science of polycrystalline silicon decomposition



From l. to r.: Richard Gross, Sid Hansen, Michael Molnar, Lanny Robbins

technology and has provided ongoing consultation support for various plant-related issues. He is the leading technologist at HSC on the science of reaction engineering, and more specifically on the next-generation silicon decomposition reactor technology development program. One of his achievements in this area was the design, construction, and operation of a pilot plant suited for kinetic study of silicon growth. He is presently supporting the development of a new product, flowable silicon, which HSC is in the process of marketing for the solar cell market. He successfully led the development and commercialization of flowable silicon, which is expected to have a significant revenue impact on HSC's business. As a result, he was part of a team that received a Technical Achievement Award in 2002. Besides that award, Dow Corning has recognized him globally for his contributions through two other Technical Conference presentations, which are presented annually: a presentation on decomposition reaction kinetics in 2000 and a poster presentation on the use of Raman spectroscopy for the measurement of chlorosilane and hydrogen flow in 2003.

In addition to his technical achievements, Michael has served the Mid-Michigan AIChE chapter as Treasurer during 1997–2000 and as Chairperson-Elect, Chairperson, and Past Chairperson during 2000–2003. He has also enthusiastically contributed to the development of our latest new experiment to demonstrate drying principles. Besides being a member of AIChE, he is also a member of the Electrochemical Society.

Michael Molnar presented the Mid-Michigan Section **2002-2003 Service to Society Award** to recipient **Sid Hansen**. The Service to Society Award is given to recognize continued achievement within the chemical engineering profession coupled with a lasting contribution of service to the community inside and outside of chemical engineering. Sid is a graduate of the South Dakota School of Mines, earning a B.S. ChE and M.S. ChE degrees from that institution in 1968 and 1969 respectively. Following graduation, Sid served as an officer the United States Army's Corp of Engineers for three years. In 1972, Sid joined Dow Corning Corporation in the Process Engineering organization. His career centered on the manufacture of basic silicones, encompassing silicone polymerization process research on linear and cyclic fluids, silicone polymer separation technologies (vacuum distillation, crystallization), and fundamental characterization of the self-assembly kinetics of silicone resins. Over the course of his Dow Corning career, he received three Dow Corning Technical Achievement Awards and two United States patents. Sid retired from Dow Corning in 2002.

Sid has been a member of AIChE since 1968 and a member of the Mid-Michigan Local Section since 1972. He has also been a member of Sigma Xi since 1969. Sid's contributions to AIChE are well noted. He has been an active section member, participating in the Education Outreach program. During his career, he was a recognized mentor for numerous young professionals within Dow Corning. Most recently, Sid co-developed Mid-Michigan AIChE's newest classroom experiment on industrial drying using fluidized beds.

This year, the Mid-Michigan Section gave special recognition to **Dr. Lanny Robbins**, in honor of his selection for the inaugural National AIChE Process Development Practice Award. Dr. Robbins received his B.S., M.S., and Ph.D. in Chemical Engineering from Iowa State University in 1961, 1963, and 1965 respectively. He has significantly advanced the practice of chemical engineering by emphasizing chemical engineering fundamentals and commercial implementation. He has built a reputation among separations experts around the world as one of the leading chemical engineers working in industry.

Examples of Dr. Robbins' commercial process development contributions are numerous. In his career at The Dow Chemical Company, Dr. Robbins has researched, developed, and implemented a wide range of separation and purification unit operations including numerous liquid-liquid extraction processes, a melt crystallization process that is widely practiced in Dow, and the AquaDetox® aqueous purification technology for stripping impurities from water to the parts-per-billion range. Recent advancements has advanced this wastewater purification technology to unprecedented low levels of parts-per-quadrillion. Dr. Robbins has led the research and development of Dow's pressure swing adsorption

technology for recovery of hydrocarbons, solvents, and monomers from vent streams and co-invented, with **George Killat** of The Dow Chemical Company, a low-cost, high-efficiency liquid distributor for packed distillation, absorption, and stripping towers. Recently, Dr. Robbins served as the principal developer of the Cargill-Dow process for isolating and purifying lactic acid at Cargill-Dow's new polylactide facility in Blair, Nebraska. In addition to the examples mentioned here, Dr. Robbins has led the development of many proprietary separation technologies now in operation at Dow facilities around the world.

In recognition of his many accomplishments, Dr. Robbins has received numerous awards throughout his career. He was awarded the Engineer of the Year Award from AIChE's Mid-Michigan Section in 1977 and in 1991. He has also received the Saginaw Valley Inventor of the Year Award, the Iowa State University Alumni Professional Achievement Citation in Engineering, and two National AIChE awards: The Chemical Engineering Practice Award (1992), and the inaugural Process Development Practice Award given just this past April at the Spring National Meeting in New Orleans as part of the formation of the new Process Development Division. In 1993, Dr. Robbins received the Herbert H. Dow Medal from the Dow Board of Directors in recognition of his leadership in the development and commercialization of separation and purification processes.

Dr. Robbins held the title of Research Fellow at Dow Chemical until his recent retirement. He is the author or co-author of more than 150 Dow technical reports, 18 patents, and 20 outside publications including chapters in *Perry's Chemical Engineers' Handbook* and *Schweitzer's Handbook of Separation Techniques for Chemical Engineers*. His most recent contribution to *Chemical Engineering Progress* (appearing in the January 2002 issue) describes the Robbins method for tuning control loops for reducing variability in distillation and other operations.

Richard Gross was given the **Noland Poffenberger Award** from the Mid-Michigan Section. This special award is given at the discretion of the Executive Committee to those individuals who exhibit continued outstanding support for our Section. Richard over the last few years has delivered several keynote addresses at Mid-Michigan AIChE events, and has arranged for high-profile speakers to lecture to our scientific community. Richard has taken time to personally offer support and encouragement for our section's activities. Last year Richard, on behalf of The Dow Chemical Company, donated \$2500 to 2002 AIChE Annual AIChE Meeting, designating Dow as a corporate sponsor of that event. As a local Section, we continue to value his support.



Tami Heilman (l.), new Chairperson, receives the gavel in regal fashion from soon to be Past-Chairperson Mike Durisin.

To round out the evening, The Mid-Michigan Section presented awards to those who volunteered on the Executive Committee and for our service events. The Executive Committee thanks all individuals who volunteer every year; these people truly drive the Section's activities and allow us to contribute positively in our community. As the final order of business, **Mike Durisin**, Chairperson performed the traditional passing of the gavel from old to the new Chairperson, **Tami Heilman**. This year we have several new faces to the Executive Committee, people who are serving our section either for the first time, or after a break in service. These include **Mark Riddle**, **Kip Mecure**, **Doug Todd**, **Verna Talcott**, **David Tascarella**, and **Joe Anderson**. **Sarah Ratcliff** has graciously volunteered to be our Chairperson-In-Training, otherwise known as Chairperson Elect. Your Section's new officers, all who can be found starting on page 16, look forward to serving you in the 2003–2004 program year and are eager to hear your input.

Congratulations to New 50-year AIChE Members

The Mid-Michigan Section has received copies of letters sent by **John Sofranko, AIChE Executive Director**, to two new 50-year members of our section, **Patrick A. Lincoln** and **Richard H. Hall**. Our section extends our congratulations to these individuals for this distinction and long-term commitment to our organization. These individuals were honored at our May 2003 awards banquet.

Update on National AIChE Financial Challenges

Editors Note: The following is a letter from Diane Dorland, National AIChE President to all AIChE Members

June 16, 2003

As you know, I made a commitment to keep you informed as the Board of Directors continues to work through the Institute's financial challenges. I am happy to report that we made significant progress at our June Board meeting. The AIChE Board of Directors passed two important resolutions:

- With the goal of keeping the Institute solvent, we support Executive Director Sofranko in aggressively implementing a plan to refocus on AIChE's core values.
- AIChE's Board of Directors endorses continued discussions with ACS and other potential partners to create value and growth opportunities for AIChE and its potential partners, the objective of the discussions being a letter of intent for presentation to the BOD.

The first resolution deals specifically with cost reductions. By refocusing on AIChE's core values, the Institute is taking steps to restore financial health. Such an effort will not be easy, because support for some AIChE programs and services will be decreased or eliminated. While these reductions may be difficult, the Board believes they are necessary for immediate financial stability.



In addition to the financial advantages for AIChE, implementing this program will also present unique opportunities for much broader volunteer involvement and leadership development. Now AIChE members with a particular interest or expertise will be able to volunteer in areas previously handled by AIChE staff. This will position AIChE for future growth.

In addition to staff reductions-a suggestion made by many members- John Sofranko is aggressively pursuing opportunities to reduce our real estate commitment by 75 percent. While a number of AIChE members have suggested we move our headquarters to Houston, consolidation at our present location is actually a more sound financial decision for the time being. Naturally, this is subject to review as the economic climate changes.

As I have written before, the AIChE Board has been exploring possible mergers, alliances, and joint ventures with other societies. You'll note from the second resolution that we are continuing in this process. This is another suggestion made by many of our members. But whether or not we eventually enter into such an arrangement, we believe strongly that we must first stabilize our Institute.

To summarize, our immediate refocusing will result in:

- Stabilization of AIChE's finances
- Continued viability of our professional home
- Focus on core activities from our professional society
- New, broader volunteer leadership opportunities
- Reduced staff accessibility
- Operational changes
- Call to greater commitment from all of us

I recognize how challenging this situation may seem. But the suggestions and comments from AIChE members from all over the world have proven extremely valuable to the Board of Directors. Many of the efforts that we have put in place are the result of your suggestions. The commitment we have seen in the past few months is very encouraging. Since our success will depend largely on the continued commitment on the part of every AIChE member, I have every reason to feel confident that we will quickly move to a position of stability and then to one of growth.

I will continue to communicate with you in this process. Thank you for your continued support of AIChE.

Sincerely,

Dianne Dorland, PhD, PE
President

PS: For answers to many questions related to AIChE's path forward, please visit <http://www.aiche.org/changes>.

Mid-Michigan Section Thanks Manoj Agrawal for Service

Manoj Agrawal, who has served on the Executive Committee for many years and most recently as Treasurer, has chosen to end his direct involvement on the Committee to pursue his Master's Degree. We wish Manoj well in his future endeavors and thank him for many years of tireless service.

Attention Budding Professional Engineers...

The required date to register for the October 23-24, 2003 Professional Engineer Examination came and went on August 1, but never fear...the exam will once again be offered April 16-17, 2004. General information concerning engineering professional exams can be found on the National Council of Examiners for Engineering and Surveying (NCEES) website at <http://www.ncees.org>. Information specific to examination in the State of Michigan can be found at the subsite http://www.ncees.org/exams/registration/registration_michigan.php. The two-part examination has strict application deadlines and registration must take place well in advance. Registration dates for the April examination have not yet been announced on the website, but keep checking.



For those who are interested in pursuing a professional engineering license in chemical engineering, the Mid-Michigan Section does offer review materials for a rental fee on an as-needed basis. The rental cost of the full videotape course for AIChE members is \$150, non-members \$200. Several years ago, these tapes were purchased by our Section for \$1200 and are still very current. We use this small fee to recoup our original investment in these videotapes, to provide study guides, and to finance the purchase of future videotapes. Study materials from the NCESS in the form of sample questions and practice tests are available for \$40 and can be purchased at http://www.ncees.org/exams/study_materials/. The Engineer-In-Training Reference Manual (Engineering Reference Manual Series) by Michael R. Lindeburg is available from Amazon.com for \$105 when purchased with the solution manual. The Executive Committee believes our price for the videotapes and study material program is an excellent value at \$150.

In past years when enough interested has been generated, our Section has arranged for a central meeting location where interested parties could review the course as a group, usually over the course of several Saturdays. Many participants have found this beneficial. Please contact Tami Heilman (989-496-8771, tami.heilman@dowcorning.com) or Eric Stangland (989-636-0517, eestangland@dow.com) for further information on possible course opportunities or videotape rental.

Great Ideas for New Course Offerings Needed

Your local section is looking for new course ideas. One of our charters is to provide members of the Mid-Michigan Section with courses to constantly educate and renew skills. This is an important part of any chemical engineer's responsibility to his/her profession. While economic conditions have made it difficult for the last year to bring courses into the Midland area, we are optimistic that the new year will bring new opportunities. If you have ideas for courses that you would like to see the Mid-Michigan Section bring to this local area, please don't hesitate to contact Brett Birchmeier (989-636-1916, bbirchmeier@dow.com), Continuing Education Chair. His contact information can be found on page 17. Better yet, bring your ideas to our kick-off meeting on September 11 as detailed on page 3 of this newsletter.

Sci-fest 2003...Earth's Atmosphere and Beyond

The Mid-Michigan Section of AIChE is seeking volunteers to work at the AIChE booth during the American Chemical Society Sci-fest. Volunteers will have the opportunity to meet with parents and children of all ages, demonstrating experiments to show how chemical engineering may be applied to solve problems. This year's Sci-fest is scheduled for Saturday, October 18th from 10:30AM - 2:30PM in Delta College's Pioneer Gym. The theme is Earth's Atmosphere and Beyond. If you are interested in volunteering, please contact Verna Talcott (989-496-6066, v.b.talcott@chartermi.net).

Expanded Career Services for AIChE members

Editors Note: The following is a letter to members of AIChE from the National Organization concerning new career services.

There are no career and employment guarantees these days. Everyone needs to be prepared for what the future may bring. Through a new AIChE partnership with Lee Hecht Harrison/ExecuPlanet, members now have online access to ExecuPlanet's CareerTools® to help them position themselves for the future.



Since its founding in 1974, Lee Hecht Harrison (LHH) has provided career management and job search services to more than 2.0 million individuals around the globe, in person and via the Internet. CareerTools® is LHH/ExecuPlanet's premier online resource - ranging from self-assessment activities to job-hunting techniques to career management advice. It's a good source for the best techniques to enhance and advance a career. And the site is interactive - you can post questions at Ask a Coach and receive professional answers; you can join a discussion group. CareerTools® is free to members.

If a member wants personal and individualized coaching, that, too is available at special rates to our members.

According to Betty Feehan, AIChE's Senior Manager for Career Services, "ExecuPlanet's CareerTools is a terrific new benefit for members at any career stage. It's available 24/7, anywhere there's an Internet connection. Members can use the site for free; those who want personalized assistance, tailored to their needs, can get it at discounted rates."

Click on the ExecuPlanet logo on the Career Services page at <http://www.aiche.org/careerservices>. Complete the registration; the group password is aiche2003 - and you're set.

Member comments and questions about this new benefit are welcome. Please contact careerservices@aiiche.org.



AICHE Announces Upcoming Record-Breaking Annual Meeting**REGISTER HERE**

November 16-21
San Francisco Hilton and Towers
San Francisco, CA
<http://www.aiche.org/annual>

THE BEST AND BRIGHTEST COME TOGETHER IN SAN FRANCISCO

Join engineers, scientists and R&D professionals from academia and industry for a record number of conference sessions and paper presentations at this year's AICHE Annual Meeting, November 16-21, San Francisco Hilton and Towers in San Francisco, CA.

REGISTER NOW FOR THE EARLY DISCOUNT

Register by October 10, and you'll receive the early registration discount. Registration is now available at <http://www.aiche.org/annual/registration.htm> or by calling 1.800.242-4363.

RECORD AMOUNT OF PRESENTATIONS

A record-breaking 18 topical conferences featuring 550 sessions and more than 4,000 papers will be presented. The program covers everything from advances in chemical engineering fundamentals, to the newest developments in emerging technologies including bioengineering, nanotechnology and sustainability. More than 4,000 engineers and scientists are expected to attend.

TAKE PART IN A UNIQUE EXPERIENCE

In addition to the compelling content, this many quality sessions at one location creates a unique environment where you can network across related and emerging disciplines. Share insights, broaden your perspective, and make new contacts essential for continued professional growth. Opportunities to meet new professionals are available at each topical's associated workshops and special networking events.

Workshops and Networking Events:

<http://www.aiche.org/conferences/annual/shorts/>

Technical Program:

<http://www.aiche.org/annual/topical/>

TOPICAL CONFERENCE LIST

This year's topical conferences include:

Biomedical
Process Technologies & Research
Nano, Bio, Nanobio and Microelectronic Technologies
Green and Emerging Technologies

BE SURE TO REGISTER BY OCTOBER 10 FOR THE EARLY BIRD DISCOUNT.

Treasurer's Report for the 2002–2003 Fiscal Year

Income Statement as of July 1, 2003 for Fiscal Year ending June 30, 2003

AIChE, Mid-Michigan Section

	YTD 2002-2003	Budget 2002-2003	Actual 2001-2002
Gross Revenues			
Dues	\$3,810.00	\$4,500.00	\$4,579.50
Continuing Education	\$0.00	\$900.00	\$0.00
Group Functions	\$2,636.13	\$3,750.00	\$3,838.00
Process Equipment & Instrument Expo	\$0.00	\$5,000.00	\$5,300.00
College Scholarship	\$0.00	\$0.00	\$100.00
MTU Scholarship	\$0.00	\$0.00	\$0.00
Educational Outreach	\$0.00	\$0.00	\$275.06
Interest on NOW, Money Market, CD	\$134.43	\$350.00	\$396.99
Interest from Putnam Money Market Funds	\$0.00	\$0.00	\$0.00
Taxed Capital Gains from Putnam Mutual Funds	\$0.00	\$1,000.00	\$1,004.62
Miscellaneous	\$0.00	\$0.00	\$0.00
Total Revenues	\$6,580.56	\$15,500.00	\$15,494.17
Gross Expenses			
Continuing Education	\$0.00	\$411.00	\$0.00
Group Functions	\$3,748.64	\$5,000.00	\$5,848.57
Process Equipment & Instrument Expo	\$0.00	\$0.00	\$0.00
College Scholarship	\$1,500.00	\$1,500.00	\$1,518.50
Publicity/Newsletters	\$1,176.20	\$1,400.00	\$1,424.47
Educational Outreach	\$0.00	\$1,800.00	\$2,114.19
MTU Scholarship	\$1,495.00	\$1,900.00	\$1,912.71
Awards	\$346.41	\$400.00	\$728.75
Executive Committee Meetings	\$430.04	\$0.00	\$832.13
Merchant Credit Maintenance Fee	\$110.00	\$120.00	\$130.00
Administration	\$881.79	\$400.00	\$912.27
Total Expenses	\$9,688.08	\$12,931.00	\$15,421.59
<i>% of Expenses attrib to Admin. + Exec.Comm</i>	13.5%	3.1%	11.3%
<i>% of Group Functions costs covered</i>	70.3%	75.0%	65.6%
<i>% of Continuing Education costs covered</i>	#DIV/0!	219.0%	#DIV/0!

Net Income (Loss)

(\$3,107.52)	\$2,569.00	\$72.58
---------------------	------------	---------

Account Balances

Chemical Bank NOW Checking	\$2,860.12		\$1,356.07
Chemical Bank Money Fund Account	\$9,432.68		\$14,310.60
Chemical Bank CD	\$0.00		\$0.00
Putnam Voyager Fund	\$16,751.92		\$18,061.10
Putnam Money Market Fund	\$0.00		\$0.00
Expo Checking Account (half of value)	\$187.00		\$187.00
Total Assets	\$29,231.72		\$33,914.77

American Institute of Chemical Engineers Mid-Michigan Section 2003–2004 Officers and Committee Chairpeople

Position	Name	Address	Internal E-mail (within company) Internet E-mail	Phone	Fax
Chairperson	Tami Heilman	Dow Corning Corp. Mail# 128 Midland, MI 48686-0995	TRHEILMA tami.heilman@dowcorning.com	496-8771	496-6243
Past-Chairperson	Mike Durisin	Dow Chemical Co. 1702 Building Midland, MI 48674-1702	Durisin, Mike (MJ) durisinm@dow.com	638-7291	636-4019
Chairperson-Elect	Sarah Ratcliff	Dow Corning Corp. Mail# 121 Midland, MI 48686-0995	SJRATCL2 sarah.ratcliff@dowcorning.com	496-5675	496-8812
Treasurer	Mark Riddle	Dow Chemical Co. 1319 Bldg. Midland, MI 48674-1702	Riddle, Mark (MS) mriddle@dow.com	638-2252	636-4616
Secretary	Kip Mecure	Dow Chemical Co. 1702 Building Midland, MI 48674-1776	Mecure, Kip (PK) pkmecure@dow.com	636-0546	636-4019
Dow Chemical Director	Victor Atiemo-Obeng	Dow Chemical Co. 1776 Building Midland, MI 48674-1776	Atiemo-Obeng, Victor (VA) vatiemoobeng@dow.com	636-3972	638-9674
Dow Corning Director	Dennis Phillips	Dow Corning Corp. Mail# 146 Midland, MI 48686-0995	DEPHILLI dennis.phillips@dowcorning.com	496-5243	496-1560
Director-at-Large	Norm Lake		thelakes@juno.com		
Program Chairperson	Tina Islam	Dow Chemical Co. 200 Larkin Building Midland, MI 48674	Islam, Tina (TM) tmislam@dow.com	638-9036	636-0194

Membership	Doug Todd	Dow Chemical Co. 1250 Harmon Road Auburn Hills, MI 48326	Todd, Doug (DK) dk todd@dow.com	(248) 829-2903	(248) 391-6417
MTU Scholarship	Erik Ohare	Dow Corning Corp. Mail# 128 Midland, MI 48686-0995	ESOHARE erik.ohare@dowcorning.com	496-4741	496-5121
EXPO 2003 Chair	Mike Molnar	Hemlock Semiconductor Corp. 12334 Geddes Road, P.O. Box 80, Mail# HEM090 Hemlock, MI 48626	MJMOLNAR michael.molnar@hscpoly.com	642-5201 x2218	642-7360
Education Outreach	Verna Talcott	Dow Corning Corp. Process Industries Midland, MI 48686	VBTALCOTT v.b.talcott@chartermi.net	496-6066	
AIChE Scholarship	David Tascarella	Dow Corning Corp. Mail# C042A1 Midland, MI 48686	DSTASCAR david.tascarella@dowcorning.com	496-5377	496-6824
Continuing Education	Brett Birchmeier	Dow Chemical Co. 483 Building Midland, MI 48667-0438	Birchmeier, Brett (BM) bbirchmeier@dow.com	636-1916	638-7337
School Donations/ Webmaster	Joe Anderson	Dow Chemical Co. 845 Building Midland, MI 48667-0845	Anderson, Joe (J) janderson2@dow.com	636-2045	636-3939
Newsletter Editor/ Publicity Chair/ Webmaster	Eric Stangland	Dow Chemical Co. 1776 Building Midland, MI 48674-1776	Stangland, Eric (EE) eestangland@dow.com	636-0517	638-9674
Section Historian	To be determined				

All telephone numbers listed above are in the 989 area code unless otherwise specified.