



**AMERICAN INSTITUTE OF  
CHEMICAL ENGINEERS**

...Serving Chemical Engineers Who Serve the World

## *Mid-Michigan Section Newsletter*

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### ***Congratulations...***

**Lanny Robbins** of The Dow Chemical Company received the inaugural **AIChE Award for Process Development Practice**. **Patrick A. Lincoln** and **Richard H. Hall** have just reached a 50-year membership milestone in AIChE.

Please read on for more information.

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## ***Words from the Chair...Nearing the End of Another Program Year***

April snuck in some wintry weather for us to enjoy(?), and the end of the 2002–2003 AIChE program year is also sneaking up on us. It's not over yet, though, and we still have a few events in store.

**Andrew Liveris, Performance Chemicals Business Group Vice President, The Dow Chemical Company**, will discuss "The Economics of the Chemical Industry" at a meeting on **April 22**. The complete announcement with all the details is inside this issue. Our awards banquet on **May 15** will feature **Rick Gross, Corporate Vice President of Research and Development, The Dow Chemical Company**, as our keynote speaker. Planning for the banquet has started; look for more information soon.

Another piece of business we attend to at this time of year is making sure that we have people available and willing to serve in AIChE positions that will be or are currently vacant. One obvious example is that of Chairperson-elect. We need someone to fill that role when I make the transition to Past Chairperson and **Tami Heilman** becomes Chairperson for the 2003–2004 program year. *Please consider volunteering* for one of the open positions. Everything runs more smoothly when we have a full slate of people. An article in this issue describes the positions we currently know will be open.

Spring is traditionally a time of renewal. People celebrate Easter, perform spring cleaning, enjoy the fresh green of dormant plants showing signs of life, and once again greet neighbors that have been mostly out of sight sheltering themselves indoors from winter's cold. I hope that our section's members enjoy a renewal of spirit, of purpose and enjoyment in their families and careers, and of the simple pleasure of warm, sunny days when you can walk outside without being bundled up from head to toe. If you haven't been active in AIChE, then try renewing your involvement in that area, too.

As always, contact any of our section staff for more information or to give feedback to us. You'll find our phone numbers and e-mail addresses at <http://www.mmaiche.org> (aka <http://www.egr.msu.edu/aichemm>).

Mike Durisin  
Chairperson, Mid-Michigan AIChE  
(989-638-7291, [durisinm@dow.com](mailto:durisinm@dow.com))

## **Lanny Robbins Receives the Process Development Practice Award**

**Lanny Robbins** of The Dow Chemical Company received the inaugural **AIChE Award for Process Development Practice**, and delivered the inaugural address at the Process Development Awards Dinner during the AIChE Spring National Meeting in New Orleans, March 30 – April 3, 2003.

AIChE National has formed a new division called Process Development, and established this new award that recognizes individuals with outstanding contributions in the practice or application of chemical engineering to process development. This award focuses on applicants who are AIChE members from industrial settings where documentation of contributions is not as readily available. Awardees are selected based on their contributions to the discovery and application of innovative solutions to technological problems, and/or commercialization of new products and processes. The award may be given to someone for an outstanding career. More details can be found at <http://www.aiche.org/awards>.

Lanny previously was awarded the Chemical Engineering Practice Award from national AIChE (1992). Please join the Mid-Michigan Section in congratulating Lanny on this honor.



**AMERICAN INSTITUTE OF  
CHEMICAL ENGINEERS**

**The American Institute of Chemical Engineers  
Mid-Michigan Chapter**  
cordially invites you to a lunch meeting on  
**Tuesday, April 22, 2003**

***The Economics of the Chemical Industry***



**Keynote Speaker: Andrew Liveris, Performance Chemicals Business Group  
President, The Dow Chemical Company**

A chemical engineer by training and a business leader for most of his career, Andrew will provide a candid look at the harsh economic environment facing the chemical industry. He will outline the numerous factors contributing to some of the worst industry conditions in 20 years and describe what will need to change for the chemical industry to restore its profitability. He also will discuss how engineers can contribute to the industry's profitability and growth.

Andrew's biography can be found on the Internet at  
<http://www.dow.com/about/aboutdow/lead/liveris.htm>

**Date:** Tuesday, April 22, 2003

**Time:** 11:30 a.m.–noon - Lunch  
noon–12:30 p.m. - Presentation by keynote speaker  
12:30 p.m.–12:45 p.m. - Questions from the audience

**Location:** Oscar's Restaurant and Entertainment  
140 E. Main St., Midland, MI 48640-5154

**Menu:** Buffet meal with sub sandwiches, chips and salsa, bean dip, vegetable tray, beverage, cheesecake

**Cost:** \$9.00 per person

**RSVP\*:** By 5:00 p.m. on Friday, April 18, to Mike Durisin (989-638-7291, [durisinm@dow.com](mailto:durisinm@dow.com)).

**Payment:** Come a few minutes early and pay at the event. The Mid-Michigan Section accept cash, checks made to Mid-Michigan AIChE, and Visa credit cards

\*Cancellations must be received by this date; otherwise, Mid-Michigan AIChE will charge you to cover the cost of your meal.

## **Urgent letter from AIChE National President, Dianne Dorland**

The following is a letter posted by AIChE National President **Dianne Dorland** on the National website at <http://www.aiche.org/changes>. It discusses the current financial health of our parent organization. We will keep our local members updated on any developments.

Dear AIChE Member:

You may have recently heard about the erosion of AIChE's financial health; in fact, the possibility of insolvency within a year. I, as well as the Board of Directors, am committed to the vitality of the Institute and we have been taking cost-cutting and revenue-generating measures in the interest of the Institute's well-being. Despite these efforts, recent economic factors and other events outside our control demand swift action beyond the measures already implemented.

During our just completed 2003 Spring National Meeting in New Orleans, the Board took immediate steps to ensure the future of AIChE. We recognize that major restructuring of our organization and programs is imperative for financial stability. With this improved stability, we will be positioned for greater vitality and growth in our Institute. In fact, this growth may come through strategic alliances with other scientific or professional societies.

I invite you to actively engage in a process of communication and feedback within AIChE that we will be implementing over the next few weeks. The Board is working this issue very actively, with weekly internal communications and a decision on a path forward to be made at our June Board meeting. We are eager to have your input and support as we work together through this challenging period in the life of the Institute. In turn, we commit to frequent communications and will be posting updates - including financial information - at this location, <http://www.aiche.org/changes>.

We are also very interested to hear your comments, receive your questions, and benefit from your suggestions. You may write to us at [changes@aiiche.org](mailto:changes@aiiche.org).

For almost 100 years, AIChE has served the needs of chemical engineers and the profession. We are confident that with your support we will emerge as an ever-stronger home for all chemical engineers.

Regards,  
Dianne Dorland  
2003 AIChE President

## **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. We hope to honor these individuals at our upcoming Awards Banquet on May 15.

## Officer Volunteers Needed—How About You?

Our section needs volunteers to fill some vacant positions for the remainder of the 2002–2003 program year and the upcoming 2003–2004 year. The positions of Chairperson-elect and Programs Chairperson are currently vacant. Our current treasurer has volunteered to stay on for next year, but he is starting an MBA program and may need some help. Below are descriptions of these jobs to help you decide if one of them is for you.

# AIChE



**Chairperson-elect:** This position has the longest commitment in our section, and the person filling it must be a member of the national AIChE. The Chairperson-elect serves for a year and then automatically becomes section Chairperson the following year. The year after that, the Chairperson automatically becomes Past Chairperson.

As Chairperson-elect, the volunteer observes how the section works, particularly the responsibilities of the Chairperson. Once the Chairperson-elect becomes Chairperson he or she assumes major responsibility for the running of the section. The Chairperson depends on the section's officers to carry out their duties, but he or she should be the glue that binds the section together and keeps it moving forward. A Chairperson may spend about two to four hours per week on AIChE activities. The responsibilities and time commitment lessen once the Chairperson becomes the Past Chairperson. The Past Chairperson advises and assists the Chairperson on issues since he or she has the necessary experience to do so. While there are few officially defined duties for the Chairperson-elect and the Past Chairperson, they can and do pitch in and help with activities. Their jobs are largely what they make of them.

**Programs Chairperson:** The Programs Chairperson is one of the more active members of the section, spending about two hours per week on AIChE duties. He or she is responsible for arranging one or more activities per month from September through May. Some of the activities are traditional and normally held during the same month year after year—the annual kick-off meeting each September, for example—while others are events of his or her own choosing or come from an idea submitted by someone else.

**Treasurer:** The Treasurer keeps the section's books, reports to the section on its financial status, usually collects payment at section functions, pays the section's bills, makes arrangements to prepare and file the section's tax returns, etc. The Treasurer spends about one to two hours per week carrying out AIChE duties.

Note that all section officers attend the monthly executive committee meeting, currently held every third Thursday. The meetings are one of the most important and regular opportunities to discuss business face-to-face.

Other position vacancies may develop, and officers are always on the lookout for volunteers to serve on their committees. See the section's Web site at <http://www.mmaiche.org> for a listing of all the positions, and feel free to contact anybody on the list to discuss his or her job.

## Career Planning Discussion Panel: How To Survive In Today's World

Career planning skills are as essential for the modern engineer as knowing how to use a computer or perform a mass balance. Everywhere you look, headlines of mergers, acquisitions, and layoffs remind us of the need to stay flexible and employable, keeping our skills ahead of the game to lure in the greatest possibilities. Employers urge us to continuously reinvent ourselves to match shifts in company focus. In this midst of this chaos, individuals should constantly strive to make their careers their own. On March 26, 2003 Mid-Michigan Section members were invited to a **Career Planning Discussion Panel** held at the Midland Center for the Arts. **Megan McHenry** and **John Anderson** organized the program and its panelists. The message of the panel was clearly given; continual personal development is a must.



### Career Planning Discussion Program and Participants

- **What IS Today's World?** - Recent hiring trends, salary statistics and other important demographics engineers should know.
  - **Bob Spears**, Consultant, Right Management Associates
- **Career Paths in a Large Company** - What are the hottest growth areas inside the two large chemical companies in town, and what skills will likely be most needed in the future?
  - **Jim Rosborough**, Global Business Development Leader, The Dow Chemical Company
  - **Gregg Zank**, New Ventures R&D Manager, Dow Corning Corp.
- **We're All in this Alone** - What is the current job-hunting outlook? What can you do now to better prepare for a possible transition? How might job-hunting tactics have changed since the last time you created a resume?
  - **Carmen Ceja-Bloom**, Consultant, Right Management Associates
- **Alternative Career Paths and Happy Landings** - Tips for those considering career paths such as entrepreneurship, small companies or freelance consulting. Plus, success stories of people who have recently been through major career changes.
  - **Bob Spears**, Consultant, Right Management Associates
  - **Megan McHenry**, Marketing Manager, MidMichigan Health
  - **Deb Bergstrom**, PhD, Dendritic Nanotechnologies Inc. (DNT)

After this event, Mid-Michigan AIChE was pleased to receive positive feedback from people whose own careers are dedicated to helping others achieve their own employee development, **Susannah Thomas** and **Michele Ehler**, both of Human Resources Development, The Dow Chemical Company. To further our section's cause, Susannah volunteered to assemble for our members a spotlight on employee development philosophies and opportunities at The Dow Chemical Company. This is one model for effective employee development at a large company. We hope our entire membership finds this spotlight interesting and informative. The Mid-Michigan Section thanks Susannah for her contribution to our newsletter, and extends great appreciation to Megan McHenry and John Anderson for organizing this successful event.

## Spotlight on Employee Development at Dow Chemical

Provided by Susannah Thomas, Human Resources Development, The Dow Chemical Company

### Philosophy

At Dow, we recognize that our people — their ideas and their energy — will ultimately propel us to the next level of performance. In our flat organization, it is extremely important that all employees be empowered and capable of reaching their full potential. It is therefore imperative that our people continue to develop — to know more, to be able to do more, to increase the value of their efforts and their personal satisfaction, and to have more opportunities — in order for Dow to increase our ability to create greater value for our customers and reach our aspirations.

Dow's Values emphasize that people are the source of our success, so our ability to provide our people with effective employee development is the key to optimizing both personal and company growth. It lets our people expand their contribution and, at the same time, expand their own career.

### Beliefs

This [Dow's] approach grew naturally out of the following set of beliefs:

- Dow hires excellent, highly motivated people.
- Bright, motivated people want to have control over their careers, not wait for someone else to direct them.
- People Leaders and other mentors are excellent guides and consultants.

### Resources to Plan for Career & Employee Development

On Dow's People Success Finder intranet site, Dow employees can find links to register for courses anywhere in the Dow world, links to on-line development suggestions, 360° development assessment tools and templates that provide career orientation assessments, personal value assessments, and employee development planning tools (all in 12 languages!).

## Doug Todd Volunteers for Mid-Michigan Section Membership Chair

**Doug Todd** of The Dow Chemical Company has volunteered to fill the Membership Chairperson role on the executive committee. The Membership Chairperson has the responsibility of keeping our membership list and contact information up to date and in synch with the National organization. This role is indispensable as we seek to quickly and effectively communicate and inform all Mid-Michigan engineers who serve the world. Doug works for Dow Automotive in Auburn Hills and can be reached at:

Doug Todd  
The Dow Chemical Company  
1250 Harmon Road  
Auburn Hills, MI 48326  
248-829-2903  
[dk todd@dow.com](mailto:dk todd@dow.com)

The executive committee welcomes Doug to this important role.

## Call for Nominations 2003 Mid-Michigan Section Awards

The AIChE Mid-Michigan Section is inviting nominations for the Young Chemical Engineer of the Year, Chemical Engineer of the Year, Service to Society, and Noland Poffenberger awards. The section will confer these awards at the upcoming annual banquet on May 15 where **Rick Gross, Corporate Vice President of Research and Development, The Dow Chemical Company**, will be our keynote speaker.

A description of each award appears below. Anyone is free to make a nomination, but note that every nomination must include a description of why the nominee is worthy of receiving the award together with the names and contact information of at least two other people who can elaborate on the nominee's qualifications. **Mike Durisin** (section Chairperson, 989-638-7291, [durisinm@dow.com](mailto:durisinm@dow.com)), **Tami Heilman** (Chairperson-elect, 989-496-8771, [tami.heilman@dowcorning.com](mailto:tami.heilman@dowcorning.com)), and **Michael Molnar** (Past Chairperson, 989-642-5201 x2218, [michael.molnar@hscpoly.com](mailto:michael.molnar@hscpoly.com)) will make the final selections from all the nominations submitted.

**All nominations are due by April 28.**

### Award Descriptions:

**Chemical Engineer of the Year** - This award is generally given to a distinguished chemical engineer in the Mid-Michigan Section who has achieved significant career accomplishments in the profession. Recipients usually have about 20-30 years of service following graduation.

Publications, patents, company recognition of achievement, and accomplishments in the field of chemical engineering are key criteria for consideration. The individual must be an active participant in AIChE at either the local or national level to be considered. This is normally an annual award.

**Young Chemical Engineer of the Year** - This award recognizes service to AIChE, technical and professional expertise, and personal leadership that is superior for an early-career engineer. It's generally given to a person with approximately 4-12 years of service following graduation. This is normally an annual award.

**Service to Society Award** - This award recognizes long-time service to AIChE, service to the profession through technical expertise and role modeling for other engineers, and community activities that benefit area students and residents. Recipients usually have about 25-30 years of service following graduation. This is normally an annual award.

**Noland Poffenberger Award** - This award is given to a high-level manager who has shown great support of the Mid-Michigan Section by encouraging employees within the recipient's organization to participate in professional organizations such as AIChE. This award is given only when a suitable candidate exists.

## Free Use of Process Simulator for Unemployed AIChE Members



Chemstations, Inc., makers of the CHEMCAD Suite of Chemical Process Simulation software, announced that it would begin offering free use of its products to unemployed members of the American Institute of Chemical Engineers. The offer is made in conjunction with the Career Services department of the AIChE and is open to members who have registered as unemployed with the organization.

Qualified members will have full access to the software for a 30-day period in which to build or 'brush up' their skills with process simulation. An online discussion forum at Chemstations' website is available to help users learn the software and discuss applications.

"We believe this program will allow unemployed chemical engineers to stay apprised of the latest technology and build their resumes at the same time, better preparing them for re-entry into the chemical process industry as an employee or consultant," says **Nathan Massey**, president of Chemstations, Inc.

Unemployed chemical engineers should contact **Herb Scheftel**, of the AIChE, at [herbs@aiche.org](mailto:herbs@aiche.org) to learn more about and sign up for the program. To join the AIChE, visit <http://www.aiche.org> or call (800) 242-4636.

Chemstations, Inc. is a worldwide leader in process simulation software, supplying the process industries and associated fields. Chemstations offers the CHEMCAD Suite, several individually licensed and tightly integrated technologies, to increase the productivity and profitability of the chemical engineer's tasks. CHEMCAD is actively used by more than 800 organizations around the world. For more information, see our website, <http://www.chemstations.net>, or call 800-CHEMCAD (243-6223).

This offer is not intended as an endorsement by the AIChE of Chemstations' products.

### Contacts:

Steve Brown  
Chemstations, Inc.  
(713) 978-7700  
Fax (713) 978-7727  
[steveb@chemstations.net](mailto:steveb@chemstations.net)

Herb Scheftel  
American Institute of Chemical Engineers  
(212) 591-7670  
[herbs@aiche.org](mailto:herbs@aiche.org) (preferred)

## Pictures Sealed with a Hershey's Kiss



**Peter Lord** (left center) was the design leader and start-up manager for a new \$130 million grass-roots chocolate plant commissioned in Hershey, PA, in 1993. His January 21<sup>st</sup> presentation covered the product research and development needed to allow the new plant to match the product quality and flavor from an 80-year-old process. A special highlight of the meeting was a tasting session of a variety of chocolate samples, many of them provided by Hershey, after the presentation.

(Thanks to **Sue Benjamin** of Hershey for obtaining the samples for us.). **Tami Heilman**, AIChE Mid-Michigan Section Chairperson-elect took these pictures of this successful event. Thanks, Tami.



The chocolate tasting table.



Several satisfied attendees.



Decisions...decisions!



A special thanks to all those that made this event happen.

## Mid-Michigan Section Develops Student Experiment

Industrial drying is done at manufacturing facilities across the globe. While drying techniques vary from problem to problem, the challenge for chemical and mechanical engineers is to develop equipment for doing this on a large scale (millions to billions of pounds per year) using the most cost effective method possible without sacrificing the quality of the product. Regardless of the product's requirement, engineers rely upon fundamental scientific principles in all of their designs, and wherever possible, they define the problem using mathematical descriptions of these tenets. While some methods are easier to practice, these fundamental principles determine the limits of what can be achieved for a given design: *conservation of mass* and *conservation of energy*.

This is the basis for the new experiment developed by the Mid-Michigan Section in 2002. With the help of a grant by the national organization, a committee developed the drying idea from a general concept to an experiment targeted for students in the 7th and 8th grade. Since being presented at last year's Awards banquet, the experiment has been piloted with an Explorer's group using multiple dryer stations. Based upon this test, the experiment set-up has been refined for 45-50 minute classroom periods. The experiment is now available for volunteers to use with the **2003 Engineers in the Classroom** program. Please contact **Michael Molnar** for details on equipment availability (Home: 989-837-2350; Work 989-642-5201 x2218, [michael.molnar@hscpoly.com](mailto:michael.molnar@hscpoly.com)).



Industrial Fluidized Bed Dryer  
Picture from Drytech Engineering website  
<http://www.drytecheng.com>

The classroom experiment consists of up to six stations containing miniatures of a fluidized bed dryer. Each miniature dryer consists of a clear acrylic tube, 4 inches in diameter, connected to a base containing a distributor plate. Students add water to a material to be dried, either poms (fluffy round sponges about one-half inch in diameter) or sand. The solid material is then added to the dryer. A flow of air regulated by a gate valve is then drawn through the distributor plate by the use of a small vacuum cleaner. As the air moves past the solids, the solids will be lifted upward and then move about in circular patterns, a process known as fluidization. The level of solids will expand and the solids will appear to behave strangely, as if they are liquid-like. This is due to the air flow through the mixture creating bubbles of different sizes. The type of motion that occurs depends upon the air flow rate, the type of particle, and the size of the particle.

The key to the drying process is to force the air to mix well with the solids. During the course of the experiment, students will measure the change in air temperature in the dryer and record their observations. A temperature decrease is observed; heat is removed from the air, providing the latent heat necessary for the poms or sand to dry. The students are then asked to apply their recorded observations to the principles of mass and energy conservation.

To build on this success, the Mid-Michigan Section is interested in developing other new experiments for use during our spring classroom demonstrations in celebration of National Engineers Week. If you are interesting in participating or forming a committee to develop the next generation of experiments for AIChE, please contact Mike Durisin (989-638-7291, [durisnm@dow.com](mailto:durisnm@dow.com)) or Eric Stangland (989-636-0517, [estangland@dow.com](mailto:estangland@dow.com)).

## Advertise in the Mid-Michigan Section Newsletter

The Mid-Michigan Section would like to assess interest for advertising in our newsletter. Our section distributes about 3 electronic newsletters a year to a membership list of 300-400 chemical engineers in the Mid-Michigan area. Quarter, half, or full page advertisements would be accepted, with competitive rates to be determined. The monies generated from these advertisements will help our section finance member educational opportunities and college scholarships sponsored by our section. Please direct inquiries to newsletter editor Eric Stangland (989-636-0517, [eestangland@dow.com](mailto:eestangland@dow.com)). Our next newsletter would be scheduled for the August-September 2003 time frame.

## 2003 Mid-Michigan AIChE College Scholarship Available

We are now accepting applications for our **2003 Mid-Michigan AIChE College Scholarship** program. The application has been included at the end of this newsletter. This annual scholarship is a \$500 / yr. award and is open to any graduating High School senior who plans to enter the field of chemical engineering. The application is straightforward and does not require a lot of time to complete. Applications can be returned via hardcopy or by e-mail to Steve Waier. If you have questions about the college scholarship program, please contact **Steve Waier** (989-496-5806, [steven.h.waier@dowcorning.com](mailto:steven.h.waier@dowcorning.com)). If you wish to receive a Microsoft® Word copy of this application, please contact Eric Stangland (989-636-0517, [eestangland@dow.com](mailto:eestangland@dow.com)). **The deadline for completed applications is Friday, May 2nd.**



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**...Serving chemical  
engineers who serve the  
world**

## Mid-Michigan Section



# American Institute of Chemical Engineers

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## Mid-Michigan Section

### **National AIChE Mission**

*Promote excellence in the development and practice of chemical engineering.*

### ***2003 AIChE Scholarship Application***

**Scholarship Purpose:** To promote the advancement of undergraduate engineering and to encourage students to enter the field of chemical engineering by providing financial support.

**General Description:** A \$500 scholarship awarded to a graduating high school senior who plans to study chemical engineering at an accredited university or college. The scholarship will reward past academic performance as well as school and community involvement; it is not based on financial need. It is intended for a student who has demonstrated a high proficiency in core academic courses and who has a high probability of success at obtaining an engineering degree.

**Eligibility:** Geographically, the pool of applicants will include the same general area represented by the mid-Michigan chapter of the AIChE. The scholarship is open to all graduating high school seniors who are interested in chemical engineering and have intentions of entering an accredited engineering curriculum.

**Required Applicant Information:** Completion of the scholarship application form including social security number, high school grade point average, class rank, school awards & honors, listing of all other known scholarships received and applied for, copy of high school transcripts, and a short essay on why the applicant wants to pursue a degree in chemical engineering.

**Information Not Required:** Information regarding family/personal income or savings is not required.

**Requirements Upon Receiving Award:** Award payments will be made directly to the recipient and are to be used at the recipient's discretion. There will be no requirements placed on how the scholarship is to be spent. Prior to receiving any funds, the award recipient will be required to show proof of high school graduation and proof that they have been accepted and are enrolled to attend an engineering curriculum at an accredited university or college. Award recipients will be eligible to reapply each year (up to 4 yrs. maximum), contingent on continued enrollment in a chemical engineering curriculum and contingent on meeting a minimum accumulative grade point requirement as defined by the AIChE committee (2.5/4.0). Students who choose to enter a co-op work/study program will be eligible to renew their scholarship as they reach each successive undergraduate class standing (So, Jr, Sr) as opposed to calendar year.

**Return Instructions:** Please mail a completed Scholarship Application Form, along with an attached copy of the student's high school transcripts and written essay to: **AIChE Mid-Michigan Section, P.O. Box 2496, Midland, MI 48641-2496, Attention: Scholarship Committee.**

**The deadline for applications is Friday, May 2, 2003.** If you have any questions please contact Steve Waier at (989)-496-5806 or at [Steven.H.Waier@dowcorning.com](mailto:Steven.H.Waier@dowcorning.com) via electronic mail.

**Disclaimers:** This scholarship will be awarded annually and there is no guarantee that a previous recipient will automatically have their scholarship renewed the following year, even if the minimum eligibility requirements have been met. The mid-Michigan Chapter of AIChE reserves the right to discontinue this scholarship program at any time.



# American Institute of Chemical Engineers

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## Mid-Michigan Section

Full Name \_\_\_\_\_  
Social Security Number \_\_\_\_ - \_\_\_\_ - \_\_\_\_\_ Date of Birth \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
Address \_\_\_\_\_ City/State/Zip \_\_\_\_\_  
Home Phone \_\_\_\_\_ Current High School \_\_\_\_\_  
Guidance Counselor \_\_\_\_\_ Phone Number \_\_\_\_\_

### **Extracurricular Activities**

List all clubs, school activities, sports, etc. , participated in during high school (include awards) \_\_\_\_\_  
\_\_\_\_\_  
List any community activities (scouts, church, etc.) participated in during H.S. \_\_\_\_\_  
\_\_\_\_\_  
List all jobs held during high school (paid or not paid, hours worked, duties) \_\_\_\_\_  
\_\_\_\_\_  
List any outside interests and hobbies \_\_\_\_\_  
\_\_\_\_\_

### **Academic Achievements**

Grade pt. average/scale (e.g., 3.8/4.0) \_\_\_\_ / \_\_\_\_ class rank/total (e.g., #15/385) \_\_\_\_ / \_\_\_\_  
Number of High School core classes in Math \_\_\_\_ English \_\_\_\_ Science \_\_\_\_ Computing \_\_\_\_  
List any H.S. honors that you have received (honor roll, National Honor Society, etc.) \_\_\_\_\_  
\_\_\_\_\_  
List two H.S. teachers that you would list as references \_\_\_\_\_  
\_\_\_\_\_

### **Financial Aid**

List all scholarships and financial aid received OR applied for and the dollar amount awarded \_\_\_\_\_  
\_\_\_\_\_  
Description of any special circumstances/financial need (e.g. siblings in college, unique financial situations)  
\_\_\_\_\_  
\_\_\_\_\_  
Colleges applied/accepted to \_\_\_\_\_  
College you are planning to attend \_\_\_\_\_  
Reasons for choosing this college \_\_\_\_\_  
\_\_\_\_\_

Do you have a parent that is a member of the American Institute of Chemical Engineers (AIChE)? **Y/N**  
*(This is for IRS reporting reasons only and will not impact the selection decision)*

### **Written Essay**

Please include a written essay (500 word or less) on why you are interested in pursuing a career in chemical engineering. Also, please include any reasons why you feel you should receive the AIChE Scholarship. *Please return the written or typed essay and a copy of your high school transcripts with this application.*

TO THE BEST OF MY KNOWLEDGE, THE INFORMATION REPORTED HEREIN IS COMPLETE AND CORRECT.

Signature of Applicant \_\_\_\_\_ Date \_\_\_\_\_