

## American Chemical Society

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**Form:** Part IV Self Nomination for Chemluminary Awards **Optional**

**Organization:** Michigan State University

**Year:** 2004

### Please Read Before Completing this Section

**Part IV of the annual report is OPTIONAL; local sections are not required to complete this part of the report.**

Part IV is used to collect nominations for a variety of local section awards. Local sections that postmark or submit their complete annual report electronically by February 15, 2005 may nominate themselves for a variety of ACS awards, by completing this portion of the annual report. **Local Sections may complete the EZ Annual Report form and self-nominate themselves for any of the awards except the ACS Award for Outstanding Performance by Local Sections.**

For eligibility, local sections must complete Part IV of the annual report. A local section may nominate themselves in several categories. However, only one nomination per award category is permitted. A separate form must be completed for each award entry and included in Part IV. Selection of the award winners is determined solely by members of the Committee presenting the awards. Award finalists will be announced in June 2005; winners will be announced on August 30, 2005 at the ChemLuminary Awards, held during the Fall National Meeting in Washington, DC.

**Description of Activity or Program: Please provide a synopsis of the activity/program and state clearly, in 1,000 words or less, why the activity/program merits consideration for this particular award. Only activities/programs that were held in 2003 are eligible for consideration. You may wish to include the following in your description: Name of Activity/Program; Date Conducted; Site/Location; Number of Participants. You may submit pictures, newspaper clippings, announcements, etc. by hard copy, to support your nomination. Please refer to the specific guidelines for each award. Descriptions are limited to 1,000 words or less.**

**2-3 Sentence Abstract:** Please provide a 2-3 sentence abstract that describes your program or activity. If you are selected as a finalist, this abstract will appear in the program booklet that will be distributed at the Chemluminary awards.

Award Categories Include:

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#### ACS Awards for Outstanding Performance by Local Sections

##### Local Section Activities Committee Awards

Most Innovative New Activity or Program in a Local Section

Best Activity or Program in a Local Section Stimulating Membership Involvement

##### Local Section Career Program Awards

##### Local Section Public Relations Awards

##### Younger Chemists Committee (YCC) Awards for Local Sections and Divisions

Outstanding Local Section Younger Chemists Committee

Outstanding or Creative Local Section Younger Chemists Committee Event

Outstanding New Local Section Younger Chemists Committee

##### Local Section Women Chemist Awards

Outstanding Single Event in a Local Section Promoting Women in the Chemical Sciences

Outstanding Overall Local Section Women Chemists Committee

Outstanding Outreach to Girls or Young Women

##### Society Committee on Education Awards

ACS Student Affiliate Chapter Interaction Award

Outstanding High School Student Program Award

Outstanding Kids and Chemistry Award

##### Local Section Minority Affairs Committee Awards

Best Overall Local Section Committee on Minority Affairs

Outstanding ACS Scholars Program Award

### **ACS Division of Polymer Chemistry**

Award for Innovative Initiatives in Polymer Science

### **ChemLuminary Awards for National Chemistry Week**

Outstanding Community Involvement in NCW

Outstanding Event for the General Public Using the Yearly Theme

Outstanding Teacher Program

Outstanding Event for a Specific Audience

Best NCW Contest

Most Original Hands-on Activity or Chemical Demonstration

Best Student Affiliate Event

Outstanding Industrial Involvement

Outstanding On-going NCW Event

### **Government Affairs Committee Award**

ACS President's Award for Local Section Government Affairs

### **Chemists with Disabilities Award**

Chemists with Disabilities Inclusion Award

## **ACS Award for Outstanding Performance by Local Sections**

Our Section would like to be nominated for the **ACS Awards for Outstanding Performance Awards by a Local Section**.

**These awards are given by the Local Section Activities Committee and recognize local sections that have demonstrated exceptional, overall achievement. The awards are judged in six size categories. For further information regarding the criteria used in selecting the award winners, go to: <http://www.acs.org/localsections/performance.html>**

### **Contact**

**Person** Name: Jetze Tepe

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Michigan State University  
East Lansing, MI, 48824

Address:

Phone: 517-355-9715x147

Fax: 517-353-1793

Email: [tepe@msu.edu](mailto:tepe@msu.edu)

The Michigan State University Local Section has participated in and sponsored a very wide variety of activities with the goals of education in the chemical sciences, outreach to our community, education in job opportunities within chemistry, and greater participation by minorities and women in the field of chemistry. The cornerstone of these activities in the past year occurred around National Chemistry Week. The largest event sponsored was "Chemistry Day at Impression 5". Impression 5 is a local science activity center located in downtown Lansing. In order to bolster community support for the activity center we held an outreach activity there centered on demonstrations and hands-on activities for the public. The demonstrations were performed by over 137 volunteers from MSU and local high schools. 318 Girl Scouts and 584 Boy Scouts attended and were rewarded for participation by receipt of a patch expounding the "Health and Wellness" theme of the event. Over 2600 people attended the event which was publicized through the scout councils, in area newspapers, and on the web. The Women in Chemistry (WiC) program is extraordinarily active with numerous engagements during the past year. For example, WiC organized a Chemistry Merit Badge Day, created a girl scout Chemistry interest project patch (IPP), presented workshops at the annual Girls' Math Science Conference, trained undergraduate presenters for the local section's Chemistry day activities, had programs dealing with issues dealing with career choices, held a welcoming luncheon for incoming graduate students, and more. The local section was also heavily involved in the education of students below the college level. Some of the activities for grade school level students are listed above such as Chemistry Day at Impression 5, Chemistry Merit Badge Day, creation of a Girl Scout Chemistry IPP which is now available nationally, and the Girls Math Science Conference. In addition, the MSU local section had members give demonstrations in grade school classrooms and held a Chemistry Olympiad competition. They are also in the third year of participation in Project SEED. The Younger Chemists Committee of the local section has a growing membership and sponsored activities in the last year, including a reception for the incoming graduate students last fall, activities during National Chemistry week, and a Career workshop that was funded by a Local Section Innovation Grant. The local section also sponsored the Organic Chemistry Club, which is co-organized by Babak Borhan and the treasurer of our local section (Prof. Rob Maleczka). The group meets weekly to discuss problems in organic chemistry, watch lectures, etc. In addition to the activities above, the local section gave financial support to students at the undergraduate and graduate level to attend national ACS meetings and presented outstanding undergraduate students with awards. As can be seen from the brief description above, the MSU local section has been extremely active in the education and involvement of people of all ages in the chemical sciences.

\* Description:  
Please limit  
to 1,000 Words  
or Less

The Michigan State University Local Section has participated in and sponsored a very wide variety of activities with the goals of education in the chemical sciences, outreach to our community, education in job opportunities within chemistry, and greater participation by minorities and women in the field of chemistry. The cornerstone of these activities in the past year occurred around National Chemistry Week where we sponsored "Chemistry Day at Impression 5", which had over 2600 people in attendance, including 900 scouts.

2-3 Sentence  
Abstract for  
Program Booklet

Picture of  
Event :

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## Local Section Activities Committee Awards

Our Section would like to be nominated for the **Most Innovative New Activity or Program in a Local Section**.

**This award is given by the Local Section Activities Committee and recognizes a local section for an innovative new activity or program.**

### Contact

**Person Name:** Anne Fischer

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**Address:**

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**Fax:** 517-353-1793

**Email:** afischer@chemistry.msu.edu

The most innovative new activity in the MSU local section was conducted by the Women in Chemistry (WiC) group. WiC the organization of the first-annual Scout Chemistry Merit Badge Day at Michigan State University and for it, created a Chemistry Interest Project Patch (IPP) for Girl Scouts.

Chemistry Merit Badge Day provided 50 area scouts with an opportunity to earn a chemistry merit badge (boys) or interest project patch (girls) through five sessions of hands-on experiments, presentations by graduate and undergraduate students, at-home preparation of a long-term study, and a poster presentation on household chemicals by each scout.

The event was conducted from 8:30 am - 3:30 pm on Saturday, Feb 28, 2004 in the Chemistry Building on the MSU campus. The event required many months of planning and the organization of over 40 volunteers.

When this event began, the Girl Scout Council did not have a Chemistry Interest Project Patch (IPP) available for girl scouts, so WiC wrote

the IPP requirements that were approved by the Girl Scouts of Michigan Capital Council (GSMCC) for use nationally in March 2004. The first Girl Scout chemistry IPPs were issued last spring to the 6 girls that participated in Scout Chemistry Merit Badge Day at Michigan State University. WiC has been contacted since by troop leaders in California, Wisconsin, and Texas for information on the Chemistry IPP requirements and the event put together at MSU for scouts. The event was conducted again in 2005 and over 30 girls earned their Chemistry IPP.

\* Description: To see the Chemistry IPP requirements and patch we created, visit:  
Please limit to 1,000 Words or Less  
<http://www.chemistry.msu.edu/scouts/gsipp.html>

The Women in Chemistry at Michigan State University conducted a Chemistry Merit Badge Workshop for area scouts. The first ever Girl Scout Chemistry Interest Project Patch (equivalent of a Boy Scout Merit Badge) was created for the event and it is now available nationally to all girl scouts.

2-3 Sentence Abstract for Program Booklet

Picture of Event :

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Our Section would like to be nominated for the **Best Activity or Program in a Local Section Stimulating Membership Involvement**.

**This award is given by the Local Section Activities Committee and recognizes a local section for an activity or program that stimulated membership involvement.**

**Contact**

**Person** Name: Kathy Severin

Department of Chemistry  
Michigan State University  
East Lansing, MI 48824

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Email: severin@chemistry.msu.edu

## Chemistry Day at Impression 5

The MSU Local Section once again ushered in National Chemistry Week with our 18th annual "Chemistry Day" hands-on activity/demonstration event held from 10 am - 3:30 pm on Saturday, October 23, 2004 at Impression 5 Science Center, a local science museum. This activity stimulates lots of member involvement. This year ~40 ACS members participated in the event. This is 10% of the MSU local section membership.

Admission to the event and hands-on museum was free, thanks to a generous donation from MBI International, a Lansing biotechnology firm. The total attendance for the event was 2,607.

Though the event was open to the public, Girl Scout and Boy Scout troops were specifically invited to pre-register and attend by publicizing the event through the local councils. Any scout attending received a scout patch (this is the fifth year we've done this; the patch is the Health and Wellness theme patch created by the OCA). The total scout attendance was 902, including 584 Boy Scouts and 318 Girl Scouts. Forty tables of hands-on activities, most consistent with the theme, were presented by graduate and undergraduate students from the Michigan State University Department of Chemistry, School of Nursing, and Human Medicine, from the University of Michigan chapter of the American Student Dental Association (ASDA), and three local high schools as well as by employees of MBI International. Theme related activities included demonstration of Clinistix in diagnosing illness, sunscreen protection of UV-sensitive beads, tests for the freshness of milk and the vitamin C in beverages, sugar content of foods illustrated by weighing, separation of DNA in bananas, filling of "cavities" in apples, hand-washing effectiveness, and the use of polymers in diapers (and many more!). Members of the ASDA were handing out free toothbrushes and the student nurses were demonstrating the use of stethoscopes. In addition to the participation patch, each participant received an NCW activity newspaper, a "Hooray for Chemistry" bag, and an NCW helium balloon.

Total number of volunteers (member & non-member): 137.

Visit our website:  
<http://www.chemistry.msu.edu/chemday>

\* Description:  
Please limit  
to 1,000 Words  
or Less

Chemistry Day at Impression 5 is the MSU Local Section's annual NCW celebration. This is our biggest event each year with 10% of our membership participating. Over 2600 people attended this hands-on activity/chemical demonstration event, including approximately 900 scouts who earned participation patches.

2-3 Sentence  
Abstract for  
Program Booklet

Picture of  
Event : 2004 NCW Michigan State 1.jpg

## Local Section and Division Activities Committees Award

### Local Section and Division Interaction Award

A Local Section or Division may nominate themselves for up to 3 Joint Awards. However, if the same Division and Local Section have held several joint events these should be combined into one nomination. A separate form must be completed for each entry. Nominations are limited to 1,000 words and should (1) describe the nature of the Local Section-Division interaction, (2) the joint event or activity and (3) explain why it should be considered for the award. Please do not send supporting materials. Events should be innovative and extra consideration will be given to events that reach a wide audience, and have good publicity. Activities which were organized and planned jointly rather than simply financially supported by one or other group will be favored. The nomination must reflect the criteria for the award and must be unique for each entry.

Our Local Section would like to be considered for the **Local Section and Division Interaction Award**

#### Contact

**Person** Name:

Address:

Phone:

Fax:

Email:

#### Nomination#1

\* Description:

Please limit  
to 1,000 Words  
or Less

Abstract

Picture of  
Event :

#### Nomination#2

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Please limit  
to 1,000 Words  
or Less

Abstract:

Picture of  
Event :

#### Nomination#3

\* Description:

Please limit  
to 1,000 Words  
or Less

Abstract

Picture  
of Event :

## Local Section Career Program Awards

Our Section would like to be nominated for the **Outstanding Local Section Career Program Award**.

**These awards are given by the Committee on Economic and Professional Affairs and recognize both a large to very large and a small to medium large local section that have demonstrated career programs that facilitate and contribute to a significant number of members' professional development. Only local sections with trained coordinators are eligible for the award.**

### Contact

**Person** Name:

Address:

Phone:

Fax:

Email:

\* Description:

Please limit  
to 1,000 Words  
or Less

2-3 Sentence  
Abstract for  
Program Booklet

Picture of  
Event :

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## Local Section Public Relations Awards

Our Section would like to be nominated for the **Local Section Public Relations Awards**

**The Local Section Public Relations Awards are given by the Committee on Public Relations and Communications and recognizes outstanding media coverage of local section activities that improve public perceptions of chemistry and chemical professionals. Awards are given to "small to medium" and "medium-large to very large" sections.**

### Contact

**Person** Name:

Address:

Phone:

Fax:

Email:

\* Description:

Please limit  
to 1,000 Words  
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2-3 Sentence  
Abstract for  
Program Booklet

Picture of  
Event :

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## Younger Chemists Committee (YCC) Awards for Local Sections and Divisions

Our Section would like to be nominated for the **Outstanding Local Section Younger Chemists Committee Award**.

**This award is given by the Younger Chemists Committee and recognizes local section YCCs that demonstrate organizational stability, solid membership and participation, involvement with their ACS local section, and an overall balance of activities (career development, scientific, social, outreach, etc.) (Note: to be eligible for this award you must also complete the YCC annual report form and include it in Appendix 6 of the local section annual report.)**

### Contact

**Person** Name:

Address:

Phone:

Fax:

Email:

\* Description:

Please limit  
to 1,000 Words  
or Less

2-3 Sentence  
Abstract for  
Program Booklet

Picture of  
Event :

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Our section would like to be nominated for the **Outstanding or Creative Younger Chemist Committee Event**.

**.This award is given by the Younger Chemists Committee and recognizes a local section event that had the greatest impact on younger chemists or was especially creative or unique. (Note: to be eligible for this award you must also complete the YCC annual report form and include it in Appendix 6 of the local section annual report.)**

### Contact

**Person** Name:

Address:

Phone:

Fax:

Email:

\* Description:

Please limit  
to 1,000 Words  
or Less

2-3 Sentence  
Abstract for  
Program Booklet

Picture of  
Event :

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Our Section would like to be nominated for the **Outstanding New Local Section Younger Chemist Committee Award**

**This award is given by the Younger Chemists Committee and is presented to new local section YCCs (within the first two years of existence or revitalization) that demonstrate an outstanding potential for organization and growth. (Note: to be eligible for this award you must also complete the YCC annual report form and include it in Appendix 6 of the local section annual report.)**

**Contact**

**Person** Name:

Address:

Phone:

Fax:

Email:

\* Description:

Please limit  
to 1,000 Words  
or Less

2-3 Sentence  
Abstract for  
Program Booklet

Picture of  
Event :

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**Local Section Women Chemists Awards**

**Best Single Event in a Local Section Promoting Women in the Chemical Sciences**

Our Section would like to be nominated for the **Outstanding Single Event in a Local Section Promoting Women in the Chemical** .

This award is given by the Women Chemists Committee and recognizes an event supported by a local section that addresses the concerns of women who are pursuing a career in the chemical sciences or who may be considering a career in the chemical sciences. Examples include a program highlighting women's present or past contributions in the chemical sciences, an outreach program to women science students, or an event that offers networking or training opportunities to women actively engaged in the chemical sciences. **(Note: to be eligible for this award you must also complete the WCC annual report form and include it in Appendix 7 of the local section annual report.)**

**Contact**

**Person** Name:

Address:

Phone:

Fax:

Email:

\* Description:

Please limit  
to 1,000 Words  
or Less

2-3 Sentence  
Abstract for  
Program Booklet

Picture of  
Event :

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Our Section would like to be nominated for the **Outstanding Overall Local Section Women Chemists Committee**.

This award is given by the Women Chemists Committee and recognizes a local section Women Chemists Committee with an ongoing commitment to programs that address the concerns of women in the chemical sciences, including outreach to women students in the chemical sciences, and increased awareness of women's contributions to the chemical sciences. Examples include participation in Expanding Your Horizon conferences, mentoring of chemical science students, and innovative programs by and about women in the chemical sciences. (Note: to be eligible for this award you must also complete the WCC annual report form and include it in Appendix 7 of the local section annual report.)

**Contact**

**Person Name:** Melissa Meaney

Department of Chemistry  
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**Address:**

**Phone:** 517-355-9715 ext 246

**Fax:** 517-353-1793

**Email:** meaneyme@chemistry.msu.edu

ACS Women in Chemistry (WiC) was founded at Michigan State University in 1997 to address the needs and concerns of women who have or are pursuing advanced degrees in chemistry and related fields. It provides

a venue for women chemists to interact and programs designed to facilitate both professional and personal

growth, to provide opportunities for network building, and to establish mentoring relationships.

Members are primarily graduate students, postdocs, specialists, and faculty members in the MSU Department of Chemistry, but participants also include women from other departments, undergraduate students, and professional women from the community.

The seventh year of WiC has proven to be the best yet, with continually increasing interest and participation. Although the mission of the group has

remained the same, WiC strives to sponsor new types of activities in a variety of formats that will reach

a number of different audiences. The specific goals for 2004 were to provide members with networking opportunities within our local section and beyond, to

maintain a strong outreach program, and find ways to further increase and diversify participation in WiC activities.

In an effort to strengthen relationships between women in our own local section, WiC held a series of brown-bag lunches in which women were invited to speak on a variety of career-related topics.

Presentations included "How to Buy the Perfect Suit" by Dr. Victoria McGuffin, "The Importance of a Post-Doctoral Position" by Dr. Lynmarie Posey, "Choosing a

Career Path" with Dr. Kirsten Tollefson, and "Preparing for an Academic Career" with Dr. Kristina Chan.

WiC also continued to facilitate networking opportunities through our "Meet the Speaker" program, in which attendees chat informally with women visiting the department. Four speakers visited with WiC in 2004, from universities around

the country. Participation at these events has increased compared to previous years, and included men and women from a variety of disciplines. Activities of this nature increase interest in WiC and raise awareness of faculty and graduate students for future events.

The 2004 outreach program included a number of events targeted at increasing and maintaining the interest of young people in scientific careers. First, WiC volunteers coordinated and mentored 31 undergraduate students who presented 16 hands-on chemical demonstrations and activities to over 2,600 visitors during National Chemistry Week at Impression V Science Center in Lansing, MI. In previous years, WiC had participated in the NCW event by performing demonstrations, but this year WiC took a more organizational role. WiC volunteers also worked with a local high school to give students hands-on experience with analytical instrumentation. Also in 2004, the WiC steering committee members organized the first-annual Scout Chemistry Merit Badge Day. This event provides area scouts with an opportunity to earn a chemistry merit badge (boys) or interest project patch (girls). When this event began, the Girl Scout Council did not have a Chemistry interest project patch (IPP), so WiC wrote the IPP requirements that were approved by the Girl Scouts of Michigan Capital Council (GSMCC) for use nationally in March 2004. The first Girl Scout chemistry IPPs were issued last spring to the 6 girls that participated in Scout Chemistry Merit Badge Day at Michigan State University. Another important outreach activity for WiC members in 2004 was the annual Girls Math/Science Conference for sixth grade girls. WiC members presented "Solving Murder with Makeup" and "How Hard is Water?" demonstrations at GSMC for young girls who have expressed an interest in math and science. Through outreach, WiC hopes to spark and maintain the interest of young girls and boys in chemistry and other natural sciences. WiC also focused on sponsoring activities that provide a supportive environment within the community and increase membership. These activities included an end-of-the-semester (Spring 2004) potluck/BBQ at the home of Dr. Kathryn Severin for women in the department and our annual fall welcome luncheon for the incoming women graduate students. In addition, WiC participated in the American Cancer Society's Making Strides against Breast Cancer for the second year, raising over \$2,200 for breast cancer research and awareness and adding 16 walkers to the over 5,000 total supporters. WiC money was raised through personal donations, an ice cream social, and sale of pink ribbons, the symbol of breast cancer awareness. Through its inter-section activities and continuous involvement in outreach, MSU WCC demonstrates what an Outstanding Overall Local Section Women Chemist Committee should be. In the last year, WCC has grown to be well respected in both the Chemistry Department at Michigan State University as well as in the

community. Our group is contacted regularly by community organizations as well as faculty members of MSU to assist in or organize numerous activities that

\* Description: promote the success of women in chemistry. Visit our website for more information:  
Please limit to 1,000 Words or Less <http://www.chemistry.msu.edu/acswic/index.html>

ACS Women in Chemistry at Michigan State University has excelled in 2004 in providing a supportive environment for women in scientific fields, in providing outreach activities that stress the importance of scientific careers to young people in the community, and in increasing interest and membership in WiC activities. Programs such as "Meet the Speaker" give members an outside perspective on scientific careers, and outreach such as Scout Chemistry Merit Badge Day, Girls Math/Science Conference, and National Chemistry Week allow members to share expertise and generate excitement among young people in the community. WiC has had an outstanding year in 2004 and anticipates even greater involvement in the coming years.

2-3 Sentence Abstract for Program Booklet

Picture of Event : Steering Committee Fall 04 - cropped.jpg

Our Section would like to be nominated for the **Outstanding Outreach to Girls or Young Women**.

**This award is given by the Women Chemists Committee to recognize a local section for programming targeted at involving girls or young women (K-12 and undergraduates) in the chemical sciences. Examples include hands-on activities, panel discussions, and tours. (Note: to be eligible for this award you must also complete the WCC annual report form and include it in Appendix 7 of the local section annual report.)**

#### Contact

Person Name: Melissa Meaney

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East Lansing, MI 48824

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ACS WiC at MSU has made an incredible contribution to the involvement of girls and young women in the sciences in 2004. In addition to the work done within the local section to advance women in scientific fields, WiC participated in numerous outreach activities to this end in 2004. The first important outreach activity for WiC members in 2004 was the annual Girls Math/Science Conference (GSMC) for sixth grade girls held at Okemos High School in Okemos, Michigan. WiC members presented "Solving Murder with Makeup" and "How Hard is Water" demonstrations at GSMC for young girls who have expressed an interest in math and science.

WiC's biggest contribution to the involvement and interest of girls and young women in science was through the organization of the first-annual Scout Chemistry Merit Badge Day at Michigan State University. This event provides area scouts with an opportunity to earn a chemistry merit badge (boys) or interest project patch (girls) through a number of hands-on experiments, presentations by graduate and undergraduate students, at-home preparation of a long-term study, and a poster presentation on household chemicals. When this event began, the Girl Scout Council did not have a Chemistry Interest Project Patch (IPP) available for girl scouts, so WiC wrote the IPP requirements that were approved by the Girl Scouts of Michigan Capital Council (GSMCC) for use nationally in March 2004. The first Girl Scout chemistry IPPs were issued last spring to the 6 girls that participated in Scout Chemistry Merit Badge Day at Michigan State University. WiC has been contacted since by troop leaders in California and Texas for information on the Chemistry IPP requirements and the event put together at MSU for scouts. To see the Chemistry IPP requirements and patch we created, visit:  
<http://www.chemistry.msu.edu/scouts/gsipp.html>

Although not entirely directed at girls and young women, WiC also played an important role in the local sections NCW event and in an outreach program with a local high school. WiC volunteers coordinated and mentored 31 undergraduate students who presented 16 hands-on chemical demonstrations and activities to over 2,600 visitors during National Chemistry Week at Impression V Science Center in Lansing, MI. In previous years, WiC had participated in the NCW event by performing demonstrations, but this year WiC took a more organizational role. Those 2,600 visitors included over 400 girl scouts who earned a patch for their participation. WiC volunteers also worked with a local high school to give students hands-on experience with analytical instrumentation. Over half of these high school students were young women with potential to enter an undergraduate degree program in chemistry or another science-related discipline. Through outreach activities such as these, WiC hopes to spark and maintain the interest of girls (and boys) in chemistry and other natural sciences.

\* Description:  
Please limit  
to 1,000 Words  
or Less

ACS Women in Chemistry at Michigan State University has excelled in 2004 in not only providing a supportive environment for women in scientific fields but also in providing outreach activities that stress the importance of scientific careers to young women in the community. Outreach programs such as the Girls Math/Science Conference and Scout Merit Badge Day allow members to generate excitement for science among girls and young women in the community. In addition, WiC was responsible for the creation of a Chemistry Interest Project Patch (IPP) for Girl Scouts that is now nationally available, in addition to issuing the first 6 Chemistry IPPs to Girl Scouts participating in Merit Badge Day in 2004.

2-3 Sentence  
Abstract for  
Program Booklet

Picture of  
Event : CMBD 2004 Girls.jpg

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## Society Committee on Education Awards

Our Section would like to be nominated for the **ACS Student Affiliates Chapter Interaction Award**.

This award is given by the Society Committee on Education and recognizes an ACS local section that has contributed significantly to the pre-professional development of ACS Student Affiliates (SA) in its region. The award recipient will have demonstrated considerable interaction with SA chapters by initiatives such as inviting chapter members to participate in local section monthly meetings and activities; assisting with SA chapter activities by providing speakers or volunteers or contributing to the overall success of the chapters in other ways; and encouraging SA attendance at ACS national and regional meetings by providing travel assistance to chapters in their section.

### Contact

Person Name:

Address:

Phone:

Fax:

Email:

\* Description:

Please limit  
to 1,000 Words  
or Less

2-3 Sentence  
Abstract for  
Program Booklet

Picture of  
Event :

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Our Section would like to be nominated for the **Outstanding High School Student Program Award**

This award is given by the Society Committee on Education and is designed to congratulate and recognize local sections that have organized or sponsored outstanding programs for high school students, such as the U. S. National Chemistry Olympiad (USNCO) program, science fairs, or chemistry clubs. Winning local sections must demonstrate that they have organized and conducted effective student programs. Outstanding programs should present evidence of the success of their programs in involving students and teachers, appealing to a diverse student population with a variety of activities or events, involving local business/industry, engaging in publicity, and encouraging involvement of the academic community in the program.

## Contact

**Person** Name:

Address:

Phone:

Fax:

Email:

\* Description:

Please limit  
to 1,000 Words  
or Less

2-3 Sentence  
Abstract for  
Program Booklet

Picture of  
Event :

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**Our Section would like to be nominated for the Outstanding Kids & Chemistry Program Award**

**The Kids & Chemistry (K&C) program is designed for ACS members who are interested in volunteering in elementary school classrooms to help ensure that quality hands-on science occurs. This award is presented by the Society Committee on Education and will go to the local section with the outstanding K&C outreach accomplishments. Programs will be judged based on the number and quality of events (hands-on, interactive involvement is desired), number of volunteers, number of students/schools involved, involvement of local business/industry, publicity, and the effectiveness of the events and programs.**

## Contact

**Person** Name:

Address:

Phone:

Fax:

Email:

\* Description:

Please limit  
to 1,000 Words  
or Less

2-3 Sentence  
Abstract for  
Program Booklet

Picture of  
Event :

## Local Section Minority Affairs Committee Awards

**Our section would like to be nominated for the Best Overall Local Section Committee on Minority Affairs**

**This award is given by the Committee on Minority Affairs and recognizes a local section committee on minority affairs that consistently promotes and encourages the participation and leadership of underrepresented minorities in the chemical sciences. Examples of qualifying activities may include mentoring minority students, collaborative events with minority advocacy organizations in science, science fairs in underrepresented communities, and programs that foster awareness of minority contributions to the chemical sciences.**



### Contact

Person Name:

Address:

Phone:

Fax:

Email:

\* Description:

Please limit  
to 1,000 Words  
or Less

2-3 Sentence  
Abstract for  
Program Booklet

Picture of  
Event :

Our section would like to be nominated for the **Outstanding ACS Scholars Program Award**

**This award is given by the Committee on Minority Affairs and recognizes the local section that most actively supports the ACS Scholars Program by including Scholars in the general activities of the section. For example, winning sections should demonstrate that they are providing successful mentoring opportunities through a variety of activities such as securing summer internships for ACS Scholars, financially supporting the program and/or incorporating Scholars into events like National Chemistry Week.**

### Contact

Person Name:

Address:

Phone

Fax:

Email:

\* Description:

Please limit  
to 1,000 Words  
or Less

2-3 Sentence  
Abstract for  
Program Booklet

Picture of  
Event :

## ChemLuminary Awards for National Chemistry Week

The American Chemical Society's ChemLuminary Awards for National Chemistry Week, formally the Phoenix Awards, were established to recognize local sections that have demonstrated exemplary performance in the development and implementation of outstanding activities in support of National Chemistry Week during the previous calendar year.

A local section may nominate for up to three ChemLuminary Awards for National Chemistry Week. However, only one per award is permitted. Nominations are limited to 1,000 words and should (1) describe the event or activity and (2) explain why it should be considered for that particular award. Please do not send supporting materials. In general, extra consideration will be given to events that are innovative, use the yearly theme, reach a wide audience, and have good publicity. The abstract must reflect the criteria for the award category and must be unique for each entry.

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Our section would like to be nominated for the **Outstanding Community Involvement in NCW**

**Recognizes a local section that generates the greatest amount of community participation. Judging Criteria: Audience Participation, Variety of Programming, Creativity and Innovation, Volunteer Involvement/Collaboration, Publicity, and Geographical Reach**

**Contact**

**Person Name:** Kathy Severin

Department of Chemistry  
Michigan State University  
East Lansing, MI 48824

**Address:**

**Phone:**

**Fax:**

**Email:**

Chemistry Day at Impression 5

The MSU Local Section once again ushered in National Chemistry Week with our 18th annual "Chemistry Day" hands-on activity/demonstration event held from 10 am - 3:30 pm on Saturday, October 23, 2004 at Impression 5 Science Center, a local science museum.

Admission to the event and hands-on museum was free, thanks to a generous donation from MBI International, a Lansing biotechnology firm. The total attendance for the event was 2,607.

Though the event was open to the public, Girl Scout and Boy Scout troops were specifically invited to pre-register and attend by publicizing and registering scouts through the local councils. Any scout attending received a scout patch (this is the fifth year we've done this; the patch is the Health and Wellness theme patch created by the OCA). The total scout attendance was 902, including 584 Boy Scouts and 318 Girl Scouts. Forty-five tables of hands-on activities, most consistent with the theme, were presented by 26 graduate and 43 undergraduate students from the Michigan State University Department of Chemistry, students & faculty from the School of Nursing and from the college of Human Medicine, from the University of Michigan chapter of the American Student Dental Association (ASDA), and ~30 students from three local high schools as well as by 10 employees of MBI International. Theme related activities included demonstration of Clinistix in diagnosing illness, sunscreen protection of UV-sensitive beads, tests for the freshness of milk and the vitamin C in beverages, sugar content of foods illustrated by weighing, separation of DNA in bananas, filling of "cavities" in apples, hand-washing effectiveness, and the use of polymers in diapers (and many more!). Members of the ASDA were handing out free toothbrushes and the student nurses were demonstrating the use of stethoscopes. In addition to the participation patch, each participant received an NCW activity newspaper, a "Hooray for Chemistry" bag, and an NCW helium balloon. This event was made possible by the efforts of a total of 137 volunteers and by the collaboration of MSU Local Section, three MSU departments, MBI International, Lansing Area Girl Scout & Boy Scout Councils, three local high schools, and Impression 5 Science Center.

\* **Description:**

Please limit  
to 1,000 Words  
or Less

Visit our website:  
<http://www.chemistry.msu.edu/chemday>

Chemistry Day at Impression 5 is the MSU Local Section's annual NCW celebration. This year 137 volunteers brought hands on activities and chemical demonstrations to over 2600 people, including approximately 900 scouts who earned participation patches. The event was made possible by the collaboration of MSU Local Section, three MSU departments, MBI International, Lansing Area Girl Scout & Boy Scout Councils, three local high schools, and Impression 5 Science Center.

2-3 Sentence  
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Our section would like to be nominated for the **Outstanding Event for the General Public Using the Yearly Theme Award**

**Recognizes a local section for an innovative public event using the current NCW theme. Judging Criteria: Pertinence to the Theme, Creativity and Innovation, Volunteer Involvement/Collaboration, Audience Reached, and Publicity**

Contact

Person Name:

Address:

Phone:

Fax:

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\* Description:

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to 1,000 Words  
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Our section would like to be nominated for the **Outstanding Teacher Program**

**Recognizes a local section for conducting an outstanding event or activity with of K-12 grade teachers during or in preparations for NCW. Judging Criteria: Participation of Teachers, Diversity of Activities/Events, Involvement of Academic Community, Relevance to Teaching Environment, Variety of Programming, and Publicity**

Contact

Person Name:

Address:

Phone:

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Our Section would like to be nominated for the **Outstanding Event for a Specific Audience Award**

**Recognizes a local section for an event that targets a specific group: such as underrepresented minority groups, scout troops, government officials, senior citizens, people with disabilities, or other specific audiences (not including teachers).**

**Judging Criteria: Audience Reached, Pertinence to the Theme, Creativity and Innovation, Volunteer Involvement/ Collaboration, and Publicity**

Contact

Person Name:

Address:

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Our section would like to be nominated for the **Best NCW Contest**

**Recognizes a local section for developing and conducting an innovative contest that generates large audience participation. Judging Criteria: Appropriateness, Creativity and Innovation, Volunteer Involvement/Collaboration, Audience Participation, and Publicity**

Contact

Person Name:

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Our Section would like to be nominated for the **Most Original Hands-on Activity or Chemical Demonstration**

**Recognizes a local section for conducting a ?new or unusual? hands-on activity or chemical demonstration that adheres to the NCW Safety Guidelines. (This award is for a single activity or demonstration, not an event.) Judging Criteria: Creativity and Innovation, Safety, Volunteer Involvement/Collaboration, Audience Reached, and Publicity**

**Contact**

Person Name:

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Our Section would like to be nominated for the **Best Student Affiliate Event**

**Recognizes a local section that coordinates and conducts a unique NCW event in which the ACS Student Affiliate Chapter(s) played a major role. Judging Criteria: Student Affiliate Involvement/Collaboration, Pertinence to Theme, Creativity and Innovation, Audience Participation, and Publicity**

**Contact**

Person Name:

Address:

Phone:

Fax:

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Our section would like to be nominated for the **Outstanding Industrial Involvement**

**Award**

**Recognizes a local section that generates the participation and support for NCW from industrial organizations and their employees Judging Criteria: Industrial Involvement/Collaboration, Pertinence to Theme, Creativity and Innovation, Audience Reached, and Publicity**

**Contact**

**Person** Name:

Address:

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Our section would like to be nominmated for the **Outstanding On-going NCW Event**

**Recognizes a local section for an outstanding event that has been conducted for at least three years (not awarded to the same section more than once in a 5 year period). Judging Criteria: Program Quality, Program Longevity, Volunteer Involvement/Collaboration, Audience Participation, Publicity, and Program Growth**

**Contact**

**Person** Name:

Address:

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## **Committee on Chemistry and Public Affairs Award**

Our Section would like to be nominated for the **ACS President's Award for Local Section Government**

**Affairs**

**This award, sponsored by the ACS Committee on Chemistry and Public Affairs, recognizes a local section for outstanding efforts to increase member involvement in government affairs and advance public policy to benefit science and society. The award consists of \$500 and a ChemLuminary Award. Selection criteria for the award includes the quality and extent of efforts to inform and engage ACS members on state or federal public policy issues and/or quality and extent of efforts to educate policymakers on science policy issues and the role of chemical science in policy and society.**

Contact

Person Name:

Address:

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## Local Section Project Seed Committee Award

Our section would like to be nominated for the **Outstanding Project SEED Program**

**This award is to recognize the local section organizing an outstanding Project SEED program. The award recipient must demonstrate an ongoing commitment to the SEED program, including outreach to high schools, local business/industry, and academic institutions. Winning local sections must demonstrate an outstanding organization and potential for growth. The award is also based on effective mentor and student interaction, local business/industry participation, and financial support**

**Contact**

**Person:** Name: Babak Borhan

Department of Chemistry  
Michigan State University  
East Lansing, MI 48824

Address:

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PROJECT SEED AT MSU, SUMMER 2004

Team: Professors Babak Borhan, Robert Maleczka, James Jackson, John Frost, Bill Wulff and Greg Baker, and graduate assistant Courtney Olmsted and Marina Tanasova

Project SEED was started by the American Chemical Society in 1968 to provide a summer research experience in chemistry or a related field to economically disadvantaged high school students. Students are placed in academic, industrial, and government laboratories for eight to ten weeks during the summer to participate in hands-on research. Professor Babak Borhan, assisted by graduate students Courtney Olmsted and Marina Tanasova were in charge of recruiting and mentoring students. Fliers and brochures were sent out to local high school science teachers with significant

populations of economically disadvantaged students since the ACS requires the family income of each participating student to be no more than 200% of the Federal Poverty Guidelines for his/her family size. Teachers with interested students responded and were sent an application designed by the MSU team. Each application required a resume, a statement of interest, and a letter of recommendation from a science teacher.

This encouraged the students to highlight their talents as well as taught them important business skills for requesting recommendation letters and submitting applications.

Dr. Borhan enlisted the help of Professors Robert Maleczka, James Jackson, John Frost, Bill Wulff, and Greg Baker to host Project SEED students. Each professor was responsible for designing a research experiment suitable for a short-term project. The six projects from the past summer included the development of the large-scale synthetic procedures for the chiral ligand VANOL, synthesis, purification and characterization of Mo<sub>6</sub>Cl<sub>12</sub> clusters for oxygen sensing, determination of the cluster conditions best for the microbial synthesis of phloroglucinol from glucose, study of hydrostannation using various metal catalysts, exploration of the catalytic abilities and selectivities of Palladium-containing materials for organic reactions, specifically the Heck reaction, and studies directed towards understanding color vision in mammals.

Two students from Perry High School and two students from Okemos High School and one student from East Lansing High School and one student from St. John's High School were chosen to participate in this program.

Each Summer I student received \$1750 and Summer II student received \$2000 for the eight-week session. Funding was generously provided by the MSU Office of the Provost, the College of Natural Science, and the American Chemical Society. All of the students were very excited about the opportunity to participate in this program which began with a meeting to introduce them to each other and to their respective professors.

Meetings were held each week to allow the students to present their research as well as ask questions about various scientific issues, including working with graduate students and using laboratory equipment. At each meeting, Professor Borhan and Ms. Olmsted covered different topics in organic chemistry to help the students better understand their research and how it related to larger projects or industrial research. Project SEED students were responsible for maintaining a lab notebook and following appropriate laboratory safety procedures, as well as understanding their project and the chemistry it involved. Each student had taken at least one chemistry class, but high school

students generally have very little knowledge of organic chemistry, so it became the responsibility of the professors and their research assistants to ensure that the students had the necessary skills and knowledge to undertake their individual research projects.

At the end of the summer, all of the Project SEED students were required to present their research in the



form of a poster session held in conjunction with the Research Experience for Undergraduates (REU) poster session at University of Michigan. Each student was required to display their research in a way that would be easy to understand for visitors observing the posters. The students stood next to their posters and fielded questions on their research from faculty and graduate students from various departments. The students were encouraged by the fact that they were able to describe their research and discuss it with people they had formerly considered authority figures instead of scientific peers. The students were also required to write up a formal paper of their research accomplishments from the summer. This helped develop their scientific writing skills and ensured they understood the research they had performed. Project SEED mentors are also encouraged to support their students with college and career counseling. All six of the student participants from last summer enjoyed their Project SEED experience. Four of them are now planning to come back into the Project Seed program as Summer II student. All of the students expressed interest in pursuing further studies in science. Plans are in progress to expand this program in the summer of 2005 to include other areas of the Chemistry Department and to increase the number of student participants. An attempt is being made to target more local high schools and develop a network of teachers to promote this program to the students they feel would benefit most from this experience.

\*Description:  
Please limit  
to 1,000  
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## **Chemists with Disabilities Award**

### **Chemists with Disabilities Inclusion Award**

**This award will be given for recognition of program activities deemed to be most inclusive and accessible to persons with disabilities. The purpose of the award is to increase the opportunities for interaction and personal participation in chemistry outreach activities by persons with disabilities who are frequently underrepresented by such programs.**

**Programs will be considered for this award if they include criteria such as, but not limited to:**

**Efforts to eliminate physical barriers to participation in the venue**

**Alternative methods and flexibility of performing essential tasks that take into account people with sensory/mobility/coordination limitations in order to maximize their personal participation**

**Emphasis on the chemical principles to be demonstrated and the chemical knowledge to be gained rather than a focus on the method of demonstration or performance of techniques**

**Efforts to educate as wide and inclusive an audience as possible to advance the practice and understanding of chemistry**

Our Section would like to be nominated for the **Chemists with Disabilities Inclusion Award**

**Contact**

**Person** Name:

Address:

Phone:

Fax:

Email

\* Description:

Please limit  
to 1,000 Words  
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