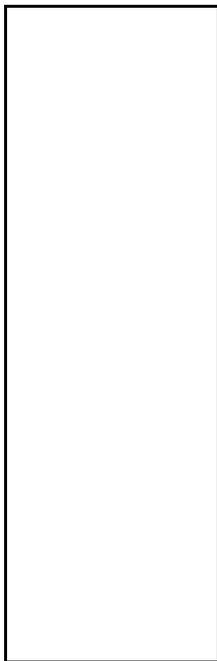


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## The Detroit Chemist

Published by the Detroit Section, ACS  
January, 2006 Vol. 95, No. 1  
Ph: 248-577-2217 Fax: 248-583-2976

### *January Joint Meeting of the Detroit ACS Section, Anachem and SAS*

**Topic: FOOD SAFETY: FACTS & FICTION**

**Speaker: L. Felix Schneider, FDA (Retired)**

**Place: UNIVERSITY OF DETROIT-MERCY  
Corner of Livernois & McNichols  
Enter Gate from McNichols  
ROOM 118, CHEMISTRY BUILDING (see  
page 15 for map)**

**Date/Time: Thursday, January 26, 2006, 6:00 PM**

We frequently see concerns raised in the popular press, TV and radio media about food safety. Beyond the headlines or lead in there is little substantive information. Some of these issues are real and others are not much more than an urban legend. The discussion will cover pesticides, food additives, bacteria, biotechnology, mycotoxins, allergens, irradiation and nutritional supplements. You may be surprised as to what are the public concerns as opposed to the ones that will most effect your health.

Mr. Schneider is retired after a 42-year career with FDA. He held positions as Analytical Chemist, Supervisory Chemist, Research Coordinator and Laboratory Director with FDA. He served in the Cincinnati, Chicago and Detroit FDA Laboratories. He received a BS degree in Chemistry and Mathematics from Western Kentucky University in Bowling Green, KY. He is a long time active member of Anachem and the Detroit Section ACS

Please join us for this most interesting program.

DIRECTIONS: Refer to map on page 15 or visit:

<http://www.udmercy.edu/about/drivingdirections.htm>

Contact Mark Benvenuto 313-993-1184 or [benvenma@udmercy.edu](mailto:benvenma@udmercy.edu)

## FUTURE ANACHEM PROGRAMS

February 22, 2006 – “Electrochemical and Optical Anion/Gas Sensors using Metalloporpphyrins in Thin Polymeric Films” presented by Dr. Mark Meyerhoff Univ. of Michigan. To be held at the Ford Research Innovative Center (Previously the SRL Lab). Time 6:00PM.

## Section Election Results Reported

The teller’s committee of the Detroit Section of the American Chemical Society counted election ballots on November 15, 2005. A total of 132 ballots were received. Four ballots came in after the deadline and 128 on-time ballots were cast. The election winners for the 2006 Detroit Local ACS Section are as follows:

Chair-Elect: Mr. Mark A. Benvenuto  
 Secretary-Elect: Ms. Megan Klein  
 Treasurer-Elect: Ms. Mary Kay Heidtke

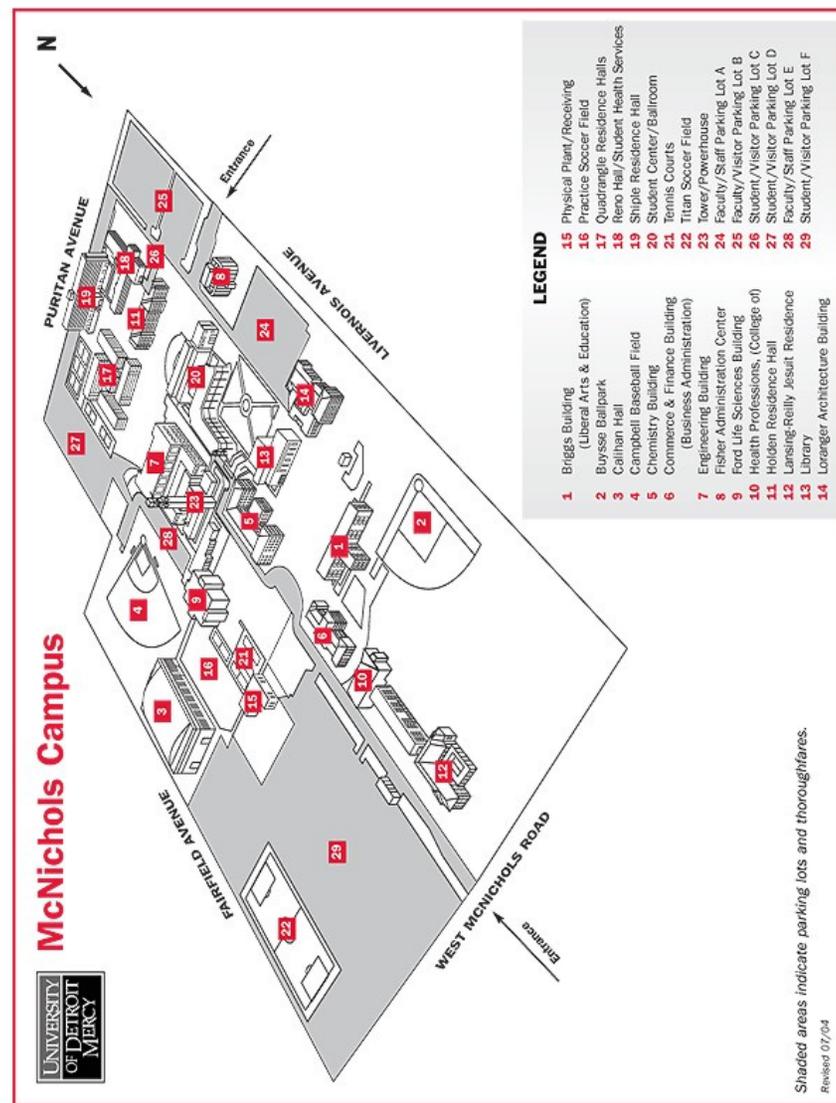
Councilor: Ms. Charlene Hayden  
 Alternate Councilor: Mr. Steven Scribner

*Anthony Sky, PhD*  
*Section 2005 Secretary*

*(Editor’s Note: see pages 8 & 9 for a complete list of the Section’s Officers and Committee Chairs)*



## Location of January Meeting:



## Calendar of Upcoming Events

**January 26, 2005**—Joint Section/ANACHEM/SAS Meeting: “FOOD SAFETY: FACTS & FICTION” by L. Felix Schneider, FDA (Retired). *See pages 1 & 15 for details.*

**February 11, 2005**—15<sup>th</sup> Annual High School Chemistry Teachers In-Service Day *See page 5 for details.*

**February 11, 2005**—Trisectional Meeting *See pages 10-11 for details.*

**March 16, 2006**—Local Section Exam for the US National Chemistry Olympiad, at the University of Michigan-Dearborn. Contact Mark Decamp at (313) 593-5379 or mdecamp@umd.umich.edu.

**March 26-30, 2006**—ACS Spring National Meeting, Atlanta, Ga

**May 16-20, 2006**—Central Regional Meeting *See pages 12-13 for details.*

### Detroit ACS Section and ANACHEM on the Web

A Website for the Detroit ACS Section and ANACHEM, maintained by Ed Havlena can be found at: <http://www.detroitsection-accs.org>

**The Detroit Chemist** is now also available via email in text-only form. The email version is distributed at the same the issue goes to press (much sooner than the printed and bulk mailed edition). To subscribe send an email to: majordomo@angus.mystery.com with

subscribe detroit-accs  
end

in the body of the message.



## 2005 Chairman's Report

As the 2005 Chair, I am pleased to report that your Detroit Section of the American Chemical Society is in good order.

Financially, the Detroit Section is in good shape. The Section Trust fund value declined some over the last few years, but recouped some of that value late in 2004 and then in 2005. The Trust Fund Committee worked very hard maintaining the fund during a difficult stock market. My thanks to the Trust Fund Committee!

In 2004, we began an initiative to better track and control our budget and this initiative continued this year. Accurate cost projections are necessary if the Section is going to increase the number activities. The operating budget for the section came from a number of sources. Each year 5% of the trust fund value may be diverted into the Section operating budget for use during that year. Additionally, the Section was supported through a National ACS allotment, a National ACS grant for one program, a donation from General Motors Corporation, a donation from the BASF Corporation, and the Section members who volunteer \$5 with their ACS dues. The 2005 budget was approved before January 1<sup>st</sup> of 2005 deadline as specified in the Section by-laws. The Treasurer did report on the budget at a number of the Executive Committee meeting and expenses were discussed. Please review the Detroit Section Annual Report, which will be available on the Local Section Activities page of the National ACS website for more details.

For 2005, we had about the same number of programs as the previous year. I don't have the exact number, but this will also be in the annual report. The Section did again this year receive a grant from the National ACS for a new program. The Minority Affairs Committee partnered with the Girl Scouts to organize "Chemistry Day at Bell Isle." Over 200 Girl Scouts learned about chemistry during an afternoon of activities and fun at the Bell Isle Park, which included helping to clean-up the park as a community service.

*(Past chair's Report, Continued from page 3)*

Other highlights include; National Chemistry Week at the Cranbrook Institute of Science, the National Chemistry Olympiad at the University of Michigan - Dearborn, a "Kids and Chemistry" booth at the Detroit Taste Festival, working with 6 Project SEED students, and more! Again this year the Section had a number of excellent programs.

What I feel is the most important improvement for 2005 was in the Executive Committee.

Everybody is working well together and anxious to contribute ideas or time. With leadership like this, YOUR Detroit Section should be one of the premier ACS Sections!

I would like to thank all those people who participated in Section activities. It was my pleasure serving as Chair for the last two years.

Sincerely,  
Kevin L. Perry  
2005- Chair

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## IMPROVE YOUR PROFESSIONAL SKILLS

ACS's Webcast Short Courses Team the Technology and Convenience of Internet Learning with the Dynamism of Live, In-Person Training—

ACS now offers Internet-based training courses to help you quickly learn the information that you need to succeed in your job. In the convenience of your home or office, you can learn new techniques, improve your lab skills, and hone your leadership and communication skills.

**Class size is limited and averages 10 students per course. This ensures that you will receive individual attention and can communicate easily with the instructor and other course attendees.**

To obtain more information or to register online for a course, go to <http://chemistry.org/elearning!> Or call (800) 227-5558, ext. 4508, or (202) 872-4508.

*(CRM—Continued from page 12)*

- **Special Symposia:** Analyzing the World Around Us Technician Symposium, Brewing Science, Functionalized Polymer Interfaces and Adhesion, History of Chemistry in the Midland Area, Knowledge Management/Data Mining, Silicon Symposium, Small Chemical Business.

Please submit abstracts online through the CRM 2006 website at [www.crm2006.org](http://www.crm2006.org) and visit the website for periodic program updates. For more information, contact the program chairs at:

[admin@crm2006.org](mailto:admin@crm2006.org).

*By Kurt Brandstadt, Chair, 2006 Central Regional Meeting*

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## YOU CAN HELP SHAPE THE FUTURE

You can demonstrate your commitment to chemistry and our next generation of scientists by contributing to programs that directly impact individual lives. Your contribution to one or more of the following programs will spare the interest and support the academic achievement of aspiring young chemists and improve our world for the better through chemistry.

- A gift to Project SEED will help a young economically disadvantaged high school student experience hands-on research in a lab alongside a scientist-mentor
- A contribution to ACS Scholars helps an underrepresented minority student with financial need pursue a chemical science degree.
- A number of you recognize your high school chemistry teacher as the reason you are in chemistry today. Your support will help a teacher be the best he or she can be in the classroom by attending ACS Teacher Training workshops.
- Your contribution to the ACS Green Chemistry Institute will positively impact human health and our environment by promoting sustainability through green chemistry principles.

For more information on these programs or to make a gift, please contact Mary Bet Dobson or Kathy Fleming, ACS Development Office, 1155 16th Street, NW Washington, DC 20036, 1-800-227-5558, ext 6210 or visit

## ACS Central Regional Meeting Focuses on 'Diverse Interactions'

The 2006 Central Regional Meeting (CRM), hosted by the Midland (Michigan) Section of ACS, will be held in Frankenmuth, MI, May 16–20. In keeping with the meeting's theme "Diverse

Interactions: The Elements of Success," abstracts are being sought for symposia that represent a wide variety of scientific interests. The online abstract submittal program opened November 21, 2005, and runs through March 10, 2006. Advance registration also opened November 21.

To promote interaction between disciplines as well as areas of application, major symposia will cover emerging, traditional, regional, and special topics. Two areas featured include nanotechnology with a workshop titled "It's a Small, Small World," and the 39th Annual Silicon Symposium, which has been built into the CRM meeting. Attendees will be offered daily plenary lectures supplemented by nine parallel sessions over the four-day meeting. Workshops will cover science literacy, bringing science to life in the classroom, innovation, nanotechnology, brewing science, and career services.

Technical papers being sought for each symposium include:

- **Emerging Areas:** Advance lithography, advance materials for portable energy devices, alternative feedstocks, biotechnology, defense applications of nanotechnology, environmental challenges, nanocomposites, optoelectronics, and photonics.
- **Traditional Areas:** Catalysts and advanced materials for clean energy, chemical education, computational and theoretical science, emulsion polymerization and latex technology, olefin catalysis and plastic materials, polymer characterization, surface characterization, undergraduate program.
- **Regional Interests:** Coatings technology, personal care, pharma, rubber/elastomers technology.

*(Continued on page 13)*

## Announcing the Detroit Local Section of the American Chemical Society Education Committee

### 15<sup>th</sup> Annual High School Chemistry Teachers In-Service Day

<b>What:</b>	<b>Tour and Glassblowing Workshop</b>
<b>Who:</b>	<b>Chris Nordin and Michelle Plucinsky Owners and Proprietors</b>
<b>Where: street)</b>	<b>Furnace Hot Glass (parking on  25331 Trowbridge Dearborn, MI 48124 313.561.4527</b>
<b>When:</b>	<b>Saturday 11 February 2006* 1 – 2:15 pm, first tour 2:30 – 3:45 pm, second tour (only if RSVPs warrant)</b>
<b>Cost:</b>	<b>Free!</b>

Please RSVP by Friday 3 February to:  
miomj@udmercy.edu

Matt Mio, Education Committee Chair

\*In case of inclement weather, you will be contacted by e-mail.

## For Your Information: ACS Sponsored High School Chemistry Clubs are Here!

In the Fall of 2005, the Education Division initiated a pilot program for ACS affiliated high school chemistry clubs across the US. ACS staff contacted interested teachers, produced a handbook, identified interesting and appropriate club activities, and established contacts with membership programs. Staff plans to set up a Web page for posting resources and encouraging communication among clubs. As funds permit, logo-bearing banners and pins will add to the starter package.

Supporting and establishing ACS high school chemistry clubs is an attractive idea that has been under discussion for several years. A survey sent out to high school teacher members—several of whom already sponsor clubs—confirmed support for such a program. A self-selected group of these teachers signed on for the 2005-06 pilot program and received assistance from the Office of High School Education in launching their chemistry clubs. Additionally, these teachers were encouraged to contact their local ACS sections and nearby ACS Student Affiliate Chapters to initiate joint activities and acquire member support.

The HS Clubs program is designed as a member benefit for high school teacher members. In order to be an ACS high school chemistry club advisor, the teacher must be affiliated with ACS at some level—including national, divisional, and/or local section affiliate.

Initial support for the clubs has included the following:

- Tabbed binder and CD with detailed start-up materials for establishing a club
- Sample constitution and bylaws
- Charter application
- Collection of safety-reviewed activities (Some of these will support various established ACS programs like National

*(Continued on page 7)*

*(TriSectional Meeting, Continued from page 10)*

tion, please contact: Joseph A. Grappin at (419) 868-8812, email to: ja.grappin@sbcbglobal.net

**TriSectional Meeting Abstract:** The archaeological chemical rewards of spending a sabbatical year in Israel and Italy will be discussed along with modern chemical methods used to examine both ancient and modern artifacts. The archaeological work in Israel involved analysis of ancient pigments and dyes found on excavated materials from caves in the Judean desert and the ancient fortress of Masada. Textiles from the "Cave of the Warrior" were examined for their pigment content. The work in Italy involved examination of medieval artists' manuals for recipes for blue pigments which were then carried out and characterized with some surprising results. Additional applications of the methods of archaeological chemistry to such famous artifacts as the forgeries of Han van Meegeren and the Shroud of Turin will be discussed, including some evidence that the radiocarbon date of the Shroud may not be valid because of fire damage experienced by the Shroud in 1532. Pros and cons will be discussed.

**Sister Mary Virginia Orna, O.S.U.** (Order of Saint Ursula) is Professor of Chemistry at the College of New Rochelle. She is also Editor-at-Large of *Chemical Heritage* magazine, former Director of Educational Services at the Chemical Heritage Foundation, and presently Publications Coordinator of the *Journal of Chemical Education*. She received her Ph.D. in analytical chemistry from Fordham University. She has lectured and published widely in the areas of color chemistry and archaeological chemistry. Her articles have appeared in the *Journal of Chemical Education*, *Color Research and Application*, *Studies in Conservation*, *Analytical Chemistry*, *Microchemical Journal*, *Journal of Biological Chemistry*, American Chemical Society monographs, and various other journals. She is currently serving as ACS Councilor and a member of the ACS Committee on Committees. She also did research on ancient middle-eastern artifacts in collaboration with the Israel Antiquities Authority, the Israel Museum and the Edelstein Center for the Analysis of Middle Eastern Textiles and Related Artifacts.

# Detroit, Huron Valley, Toledo TRISECTIONAL MEETING

Art, Archaeology and Chemistry  
with *Sister Mary Virginia Orna*  
Saturday, February 11, 2006  
Toledo Museum of Art  
www.toledomuseum.org

**2445 Monroe Street at Scottwood Avenue Toledo, Ohio  
43620 The Museum is just west of Toledo's downtown  
business district, directly off Interstate 75**

You're invited for an afternoon at the world-renowned Toledo Museum of Art! The afternoon will be filled with docent tours of exhibits such as *Persona/ non Persona: Portraits Without Faces* and *Louis Comfort Tiffany: Artist for the Ages*. The afternoon will culminate with a special lecture from Sister Mary Virginia Orna on art, archaeology, and using chemistry to explain mysteries of the past. The lecture will be followed by a reception including a variety of hors d'oeuvres and soft beverages. The reception will allow our members and associates to converse with *our guest speaker* in a relaxed atmosphere on issues of art, archeology and the chemistry tools used.

Event starts at 12pm followed by the Presentation at 1pm and the event concluding at 4pm.

Please reserve your place for this wonderful event. **Reservations must be received by February 3<sup>rd</sup>**. The entrance to the museum is free however to defray some of the cost there will a charge for this event of \$10.00 in advance or at the door. College students - half price! Checks can be made payable to ACS -Toledo Local Section.

To make a reservation by February 3<sup>rd</sup> or for additional informa-

(Continued on page 11)

(High School Chemistry clubs, Continued from page 6)

Chemistry Week, Chemagination, Kids & Chemistry, U.S. National Chemistry Olympiad, Chemists Celebrate Earth Day, and Green Chemistry.)

- Career information
- Information on ACS Accredited Colleges and Universities
- Website
- Contact information for Local Sections and Student Affiliate groups
- Community Service Project ideas

Education Division staff is collecting contact information for the 2006-2007 academic year. In exchange for certain charter-initiating documents, schools will receive ACS resources and support. Please email staff at [education@acs.org](mailto:education@acs.org) with questions, plans and/or suggestions.

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## WCC TRAVEL AWARDS AVAILABLE

The Eli Lilly & Company is once again sponsoring a program to provide funding for undergraduate, graduate, and postdoctoral women chemists to travel to scientific meetings in 2006 to present the results of their research. Grants may be applied only for registration, travel, and accommodations, and are restricted to travel to meetings within the United States. Grant funds are limited, but there are some funds set aside for undergraduates. Only U. S. citizens and permanent residents are eligible. Applications should be limited to one per research group. Awards will be given with preference to the following order: (1) any applicant who will be making her first presentation (regardless of format) at a national or major meeting, (2) graduate or postdoctoral applicants who have not presented at a national or major meeting since leaving undergraduate school. Women who have received a prior award under this program are ineligible.

**The deadline is February 1, 2006 for receipt of applications for meetings between July 1 and December 31, 2006.** For application and more information visit the WCC Web site:

<http://membership.acs.org/W/WCC/> or write [wcc@acs.org](mailto:wcc@acs.org).

# 2006 Detroit ACS Section Officers and Committee Chairs

## 2005 Section Officers:

### Chair & Chair-Elect: Mark Benvenuto

E-Mail: benvenma@udmercy.edu  
Phone: 313-993-1184, FAX: 313-993-1144

### Secretary: Anthony Sky

E-Mail: sky@ltu.edu  
Phone: 248-204-3606, FAX: 248-204-3518

### Secretary Elect: Megan Klein

E-Mail: klein\_megan@hotmail.com

### Treasurer and Treasurer-Elect: Mary Kay Heidtke

Phone: 313-843-7855  
E-mail: MKHeidtke@aol.com

### Councilor: Charlene Hayden

E-mail: Charlene.Hayden@gm.com  
Phone: 586-986-0854, FAX: 586-986-0817

### Councilor: James Landis

E-Mail: jim.landis@gt.org  
Phone: 248-577-2217, FAX: 248-583-2976

### Councilor: Walter Siegl

E-Mail: wsiegl@yahoo.com  
Phone: 313-278-5821

### Alternate Councilor: Mark DeCamp

E-mail: mdecamp@umd.umich.edu

### Alternate Councilor: Sunitha Grandhee

E-mail: sgrandhee@exatec.biz  
Phone: 246-960-1143

### Alternate Councilor: Steven Scribner

E-Mail: sscribner@marygrove.edu  
Phone: 313-927-1321

## 2005 Committee Chairs:

**Awards:** Mary Kay Heidtke (see above)

**Bylaws:** Walter Siegl (see above)

**Education:** Matt Mio

E-mail: miomj@udmercy.edu  
Phone: 313-993-1188, FAX: 313-993-1144

**Environmental Improvement and Safety:** Peter Warner

E-Mail: peter.warner@wayne.edu  
Phone: 313-833-3603, FAX: (313) 833-3561

**Government Affairs:** Kevin J. O'Mara

E-Mail: kevin@e4mas.com  
Phone: 248-591-6660 ext 112, FAX 248-591-6668

**Industrial Liaison:** Sunitha Grandhee (see above)

**Kids and Chemistry:**

**Mary Kay Heidtke (see above)**

**Gina Ludwig**

E-mail: smile11540@wowway.com

**Felix Schneider**

E-Mail: felixschn@aol.com  
Phone: 248-583-1578

**Walter Siegl (see above)**

**Long Range Planning:** Charlene Hayden (see above)

**Membership:** Steven Scribner (see above)

**Midgley Award:** Craig Donahue

E-mail: cdonahue@umd.umich.edu  
Phone: 313-593-5347 FAX 313-593-4973

**Minority Affairs:**

**Herman Phlegm**

E-Mail: herman.phlegm@gm.com

**Yolanda Watts**

E-Mail: wattsy@basf-corp.com

**National Chemistry Week:** Denise Grimsley

E-Mail: grimsld@basf-corp.com  
Phone: 734-324-6539, FAX: 734-324-5031

**Newsletter Editor (Publications):** James Landis (see above)

**Professional Relations (Career Program):** Megan Klein

E-Mail: klein\_megan@hotmail.com  
Phone: 734-282-3370

**Project SEED:** Keith Williams

E-Mail: AC1573@wayne.edu  
Phone: 313-577-0278, FAX: 313-577-1377

**Public Relations:** Gina Ludwig (see above)

**Regional Planning:** Mark Benvenuto (see above)

**Silver Circle:** Mark Benvenuto (see above)

**Trustee Board:** Kurt Reimann

E-Mail: k.reimann@att.net  
Phone: 734-675-6428

**USNCO (Chemistry Olympiad):** Mark DeCamp (see above)

**Women Chemists:**

**Hulya Ahmed**

E-mail: ahmed@basf.com  
Phone: 734-324-6346, FAX: 734-324-5031

**Vauhini Telikapalli**

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**Younger Chemists Committee:** Meghann Mouyannis

E-mail: meghann\_13@hotmail.com

**ANACHEM Liaison:** Edward J. Havlena

E-mail: 73230.1340@compuserve.com  
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