

CINTACS



Newsletter of the Cincinnati Section of the American Chemical Society April, 2005
Vol. 42, No. 7

Teachers of the Year Named!

See page 4 for story

Meeting Calendar

**Thurs.
April 21** Andy Daniher/Susan Ross
High School Awards
Northern Kentucky U.

**Thurs.
May 26** Party Night!
Hofbräuhaus Newport

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April Monthly Meeting

What can you do with a chemistry degree?



**Dr. Susan Ross,
Procter & Gamble
and
Dr. Andy Daniher,
Givaudan Flavors**



Abstract

What can you do with a chemistry degree? A lot! Andy Daniher from Givaudan and Susan Ross from Procter & Gamble will share with you what they did with their chemistry degree. While there is no predictable career path, Andy pursued a slightly more traditional chemist role and Susan has taken an untraditional

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About the Speakers

Dr. Andy Daniher

Andy earned his B.S. in Chemistry from John Carroll University, Cleveland ('92). At JCU, Andy performed research in inorganic chemistry with Paul Challen. Undergraduate research sealed Andy's fate as a chemist. From Cleveland, Andy moved on to St. Louis to study bioorganic chemistry at Washington University. Under the direction of James Bashkin, Andy developed modified DNA molecules that could hydrolyze specific mRNAs to control protein expression. For this work Andy received his Ph. D. in 1997. With Andy's newly developed skills in hand, he headed for Boulder, Colorado for a post-doc in the nucleic acid synthesis group at Ribozyme Pharmaceuticals, Inc. Andy started in the Organic Chemistry group at Givaudan in 1999 developing new flavor ingredients.

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THE CINTACS NEWSLETTER**Vol. 42, No. 7 April, 2005**

Editor.....Bruce S. Ault
 Advertising.....Ed Hunter

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From the Chair

At our upcoming meeting on Thursday, April 21 at Northern Kentucky University, the Section will recognize the outstanding accomplishments of K-12 teachers and students in our region. The Chair thanks Prof. Jim Niewahner for making all the arrangements at NKU for the meeting. Thanks are also due to IOTA SIGMA PI, Honor Society for Women in Chemistry, for their financial contribution to help support the April meeting.

Over the years, our award programs for teachers and students have been a key part of our support for science education and this year is no exception. All of us know from our own experience how important chemistry teachers have been to our career development. And so, it is very important that we recognize the hard work and dedication of our teachers. Individually, we, as members of the Cincinnati Section, need to do our part by coming to the April meeting and celebrating the accomplishments of our teachers and students.

Essentially, this meeting is really about the students; the next generation of chemists and engineers. Those trained in chemistry can use their technical training and background to be successful in quite a broad range of exciting careers. However, we frequently read of the declining interest in science and science-based careers by high school and college students. Perhaps, in part, this trend may be caused by a tendency to stereotype chemists. Our speakers, Susan Ross, from Procter & Gamble and Andy Daniher, from Givaudan, will help to broaden our view of the chemistry profession. Both were trained as Ph. D chemists, but are using their scientific backgrounds in ways they did not anticipate a few years ago. In addition, many of us who have been working in academia and industry for a couple of decades (or more) will get to see a different perspective on chemistry and careers.

Our Awards program would not happen without the efforts of Jim Hershberger, John Williams and Richard Sunberg. Jim Hershberger is chair of the Awards committee; John Williams is responsible for the Oesper and Chemistry Olympiad examination and Richard Sunberg takes care of the National Chemistry Week competition. These gentlemen have been doing this work for quite a number of years. To Jim Hershberger, John Williams and Richard Sunberg; thank you for all your hard work.

At the April meeting, our Section will also recognize four members who have achieved fifty years of service. Congratulations to Mr. Robert Allen Heazlitt, Mrs. Barbara Ann Parry, Dr. Elmer Fredrick Pooch and Mr. James Richard Prall!!

So we, as members of the Cincinnati section have several

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April Monthly Meeting
Thursday, April 21, 2005
University Center
Northern Kentucky University

Program

- 5:00 Board Meeting: University Center 108
- 5:30 Registration: University Center, Second Floor Lobby Area
- 6:00 Banquet, University Center Ballroom, \$15.00
Sliced Roast Beef with Burgundy Sauce, Baked Cod
Tossed Green Salad, Sautéed Green Beans with Pimentos, Corn with Peppers, Wild Rice Blend
Rice Pilaf
Rolls, Iced Tea, Coffee, and Assorted Fruit Pies
Quiche is available on special request. Please ask for this when you make your reservation.
- 6:45 Speakers: Dr. Susan Ross, Procter & Gamble and
Dr. Andy Daniher, Givaudan Flavors.
University Center Ballroom
- 7:45 Awards Presentation
University Center Ballroom

The Section thanks Iota Sigma Pi for their financial contribution to help support the meeting

Dinner Reservations: The meeting reservation form is online at <http://www.che.uc.edu/acs/cinacs.html>. This is the best and easiest way to register. As a lessor alternative, you may send your reservations by email to kim.carey@uc.edu. If it is absolutely impossible for you to make reservation via the internet, call 513-556-0293 (please leave name, affiliation, a contact phone number and state if you are in one of the ½ price categories). Deadline for reservations is 9 am on Monday, April 18.

Directions: From Downtown, or Cincinnati suburbs, take I-71 or I-75 or I-275 to I-471 South. Approximately six miles from the Downtown Cincinnati, I-471 ends as it merges with US27 at the first light. From northern Kentucky take I-75 to I-275 East to the Alexandria/US27 exit (this is past the NKU exit); continue on I-471 to US27 at the first light. At the second stop light turn right onto Nunn Drive, the entrance to Northern Kentucky University. From Nunn Drive turn left at the first traffic light. Go past the parking garage and turn right at the next stop sign. The University Center is the second building on the right. Guests may park in any unreserved parking space. (Do not park in Lot N as it is all reserved). Guests must have a handicapped parking sticker in order to park in a space for the handicapped.

(Continued from page 1)

role. You'll find out what they had in common as chemists. In the panel discussion, you'll also hear how other skills gained in chemistry can differentiate and propel one's career, whether among other chemists or for jobs, which seemingly are unrelated to chemistry. So whether you're starting out in chemistry or looking for a change, Andy and Susan's discussion should let you see the wide selection of opportunities that a chemistry degree offers.

(Continued from page 1)

He has been the group leader in Flavor Performance since 2003. At Givaudan, Andy enjoys leading interdisciplinary teams of scientists to solve problems of business significance.

Dr Susan Ross

Susan started her chemistry studies at the Shippensburg University in Shippensburg, PA ('95). Afterwards, she summer interned at Procter & Gamble modeling product attributes to phase chemistry of surfactants. In 2000, Susan earned a Ph. D in analytical chemistry at the University of Cincinnati under the generous guidance and support of Drs. Carl Seliskar and William Heineman. Some of her awards while at UC include the James Koehler Prize, the Procter & Gamble Fellowship and the Research Associate Scholar Fellowship. She served as a 2nd Vice Chair of the Cincinnati Section of the ACS, and co-founded the local section of the Younger Chemists Committee. Susan's passion in translating science to everyday practical application has led her on a stimulating, albeit atypical career for a chemist at Procter & Gamble.

(Continued from page 2)

reasons to come to this meeting: to recognize our exceptional students and dedicated teachers, to hear about the career paths of two young chemists and to congratulate our newest fifty year members!!

Phil Christenson

Teacher of the Year Awards

Each year the Cincinnati Section recognizes excellence in science education by presenting Teacher of the Year awards to outstanding teachers in the Cincinnati region. Those of you who have been involved in recruiting or hiring scientific talent know very well how difficult it is to hire and retain high quality scientists. We, in Cincinnati, are literally competing on a global basis for scientists and the competition has recently become more intense with the growth of technology-driven businesses in China and India. So, encouraging more students to become interested in science and fostering strong science education programs is vital to our local community and our nation.

The quality of our teachers is arguably the most important factor in determining the success of our science education programs. No doubt the influence of at least one teacher was a major factor in leading each of us to a career in chemistry. And so, it is very important that we recognize the hard work and dedication of our teachers. The Awards Committee of the Cincinnati Section is pleased to announce the following 2004 Teacher of the Year of Awards.

The 2004 High School Teacher of the Year is **Coleen Epperson from Fairfield High School.**

The 2004 Middle School Teacher of the Year is **Tom Amlung from Mariemont Junior High School.**

The 2004 Elementary School Teacher of the Year is **Carol Muzny from Taylor Mill Elementary School.**

Each of these teachers has demonstrated excellence in science education and has made outstanding contributions to the educational programs in their school system. The Teacher of the Year Awards will be formally presented at the April meeting of the Cincinnati Section and more complete articles on these three outstanding teachers will appear in the May issue of CINTACS.

Congratulations Coleen, Tom and Carol!!

Jensen to Receive 2005 Edelstein Award

The Division of the History of Chemistry of the American Chemical Society has just announced that Dr. William B. Jensen of the Department of Chemistry of the University of Cincinnati has been selected as the winner of the 2005 Edelstein Award in the History of Chemistry. The award will be formally presented to Dr. Jensen at a symposium to be held in his honor at the 230th National Meeting of the American Chemical Society in Washington, DC, this coming August. The Edelstein Award is the only international award in the history of chemistry and past recipients have included scholars from Great Britain, France, Holland, Hungary, Mexico, and Germany. Endowed in 1956 by the late Sidney M. Edelstein, the award was originally known as the Dexter Award but was renamed in Edelstein's honor after his death in 1994.

Among Dr. Jensen's accomplishments cited in the award decision are his founding and editor-

ship of the Bulletin for the History of Chemistry in 1988, and his development and management of the Oesper Collections in the History of Chemistry at the University of Cincinnati, which include a rare book and journal collection spanning the 16th through the 20th centuries, a print and photo collection, and a museum of historical chemical apparatus. The Bulletin is the only American journal devoted to the history of chemistry, and the museum is the largest collection of such artifacts outside of the Smithsonian. Dr. Jensen is also the author of more than 150 papers and reviews in the fields of inorganic chemistry, chemical education, and the history of chemistry, and is the author of two books: *The Lewis Acid-Base Concepts: An Overview* (Wiley, 1980) and *Mendeleev on the Periodic Law: Selected Writings 1869-1905* (Dover 2005), with a third book, *Fin de Siecle Chemistry: A Brief Outline of 600 Years of Chemical History for Students of Chemistry*, in the final stages of completion.

As an interesting side note, the first Dexter Award was given in 1956 to the late Dr. Ralph E. Oesper, also of the University of Cincinnati. Dr. Jensen, who is the 48th recipient of the award, holds the Oes-

(Continued on page 15)



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Joseph G. Cannon, Emeritus Professor of Medicinal Chemistry,
University of Iowa

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- Be exposed to the status of contemporary pharmacologic thought and drug therapy-where progress is being made and where advances will likely be made

About the Instructor

Joseph G. Cannon, Emeritus Professor of Medicinal Chemistry, University of Iowa, is the author or co-author of more than 200 articles in organic chemistry, medicinal chemistry, and pharmacology. He is one of the highest rated instructors in the ACS Continuing Education program and is the recipient of the Smissman-Bristol-Myers-Squibb Award sponsored by the ACS Division of Medicinal Chemistry.

General Concepts and Principles of Pharmacology

Definitions

Survey of appropriate literature of pharmacology

Membrane models, ion channels, structure of liquid water, implications to pharmacology

Absorption and distribution of drugs: active and passive transport

Blood-brain barrier

Drug metabolism, storage, and excretion, Enzyme induction

Drug-receptor interactions, Theories of drug activity

Introduction to pharmacokinetics

Nervous System

Anatomy and physiology of the nervous system

Nerve impulse transmission

Autonomic nervous system

Autonomic physiology and pharmacology

Noradrenergic system: receptors, agonists, antagonists, mixed acting drugs

Dopaminergic system: physiology, Parkinsonian syndrome

Cholinergic system: receptors, agonists, antagonists, acetylcholinesterase inhibitors, Alzheimer's syndrome, other forms of cognitive dysfunction

Central nervous system drugs

Definitions

Aspects of CNS anatomy and physiology

Neurotransmitters and receptors

Antidepressants

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Teachers Celebrate at Rozzi's

This is a call to all chemical educators to attend the last function of the chemical educators' discussion group for this academic year – a tour of Rozzi's Famous Fireworks in Loveland, Ohio. Art Rozzi will take us on a tour of the production facility and then give us a talk on firework production on Wednesday, May 25, at 4 PM. The visit will last about 90 minutes and then we will share a pizza supper at a nearby restaurant. Sound like FUN? Art asks that I give him a reasonable estimate of the group size. Therefore, I ask that you RSVP your intent to attend by sending me an e-mail at Linda.ford@7hills.org. Once I generate a list, I will send travel directions.

Fifty Year Members!!

This year the Cincinnati Section has four members who have reached 50 years of service in the American Chemical Society. A fifty year commitment to our professional Society is a remarkable accomplishment. The Cincinnati Section offers its congratulations to the following members for their long record of service to the Society:

Mr. Robert Allen Heazlitt, Cincinnati, Ohio,

Mrs. Barbara Ann Parry, Cincinnati, Ohio,

Dr. Elmer Fredrick Poock, Cincinnati, Ohio,

Mr. James Richard Prall, Hamilton, Ohio.

These distinguished members will be honored guests at the April meeting and will be formally recognized for their achievement at the meeting. In addition, each member will be cited in an upcoming issue of *Chemical & Engineering News*.

Again, congratulations to our 50- year members!

We specialize in recruiting and placing professionals, for contract, contract-to-hire and direct placement employment across the complete scientific, clinical and research spectrum. This includes: Lab Technicians, Chemists, Research Associates, Quality Assurance, Quality Control, Chemical Engineers, & more.

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Call for Nominations for Outstanding Service Award

Nominations will be accepted for the Cincinnati Section Outstanding Service Award until Thursday, April 21. The nominee should have performed an extraordinary service to the Cincinnati Section. The nominator should be a member of the Section. A complete nomination consists of a letter written by the nominator, detailing the reasons why the nominee is deserving of the award, and at least one supporting letter by another member of the Section. Nomination materials should be sent to: James W. Hershberger, Cincinnati ACS Awards Committee Chair, Department of Chemistry and Biochemistry, Miami University, Oxford, OH 45056. Alternatively, materials can be sent by email (hershbjw@muohio.edu) or fax (513-529-1675).

Cincinnati Section Member Survey Results

Let me first give you some information on demographics of the section (as of 12/2003).

- We have 1655 members.
- 75% are males, 22% females.
- In terms of age groups, 20-30 make up 8.5% of the membership, 31-40 19.6%, 41-50 23.1%, 51-60 18.3%, 61-70 9.8%, and 71+ 10.6%.
- Only 61% of members have identified their ethnic background, with Whites at 47.6%, Asians at 9.7%, African Americans at 2.4%, Hispanics at 0.9%, and Native Americans at 0.2%.
- As for their majors, 77% are Chemistry, 7% Chemical Engineering, and 15 % other.
- Of the Chemistry degrees, Doctors make up 41%, Masters 14%, Bachelors 35%, and Associates 2%.
- Only 56% of members have identified their field of interest, with the major ones being Analytical Chemistry (8.64%), Organic Chemistry (7.37%), and Medicine/Pharmacy (5.74%).

The surveys were mailed out to the whole membership. They were also sent by e-mail to about half of the membership for whom the section has e-mail addresses. It was also available on the section web site. 147 surveys were returned. 141 had been completed, 102 by email and 39 by mail. Even though the return rate seems low, 9%, there is wealth of information that will be very useful in programming in the future.

Looking at the first six questions, here are the responses:

1. When was the last time you attended a local section meeting?

2004	2003	2002	2001	Pre-2001
63	17	5	8	31 + 8 (never)

2. Indicate which options you prefer for a meeting. (Check all that apply)

Mon	Tue	Wed	Thu	Fri	Sat. A	Sat E
37	55	71	61	11	15	10

3. How often do you prefer to meet?

Monthly	Every other month	Quarterly
50	47	32

4. Check SIX of the topics that you would like to see featured at a meeting:

17 Agricultural Chemistry	45 Chemistry and the Law	57 History of Chemistry
60 Analytical Chemistry	23 Computers	15 Inorganic Chemistry
25 Astrochemistry	54 Drugs Medical/Pharmaceutical	12 Lunar Chemistry
37 Biochemistry	24 Energy	7 Nuclear Chemistry
35 Biotechnology	16 Engineering	34 Organic Chemistry
52 Chemical Education	49 Environmental Chemistry	15 Physical chemistry
8 Chemical Literature	55 Forensic Science	36 Polymer Chemistry
23 Chemical Safety	12 Geochemistry	27 Surface Chemistry

5. Check TWO non-traditional topics that you would like to see featured at a meeting:

18 America's Funniest Chemical Videos	20 Discovery of the Elements
30 History of Beer Brewing	8 Famous Mad Hatters
10 Caves—Worlds within the World	62 Spices & Herbs: Chemistry & Health
15 Chemistry in Comics	37 The Application of Chemistry to the Examination of Works of Art
16 Chemistry of the Stradivarius Violin	38 The Chemistry of Magic
22 Chemical Oceanography	

6. What would make you more likely to attend a meeting of the Cincinnati Local Section? (Check three.)
- 88 If I had more time
19 If there was more time to network/socialize.
45 If the meetings were located more conveniently.
- 1 If the meetings occurred more frequently.
49 If the content/topics were more germane.
10 If the meetings occurred less frequently.
19 If the cost of the meal was less expensive.
7+4 Nothing could make me more active.
5 If the menu was more diverse.
16+1 Other, please specify.

The BEST news from the survey turned out to be the responses to the question below.

7. In addition to meetings, the Cincinnati Local Section has several committees that plan and implement programs. Check those committees on which you might be willing to serve.

There were 53 new names who checked one or more (mostly more) committees. Our section has 21 elected officers and 38 committees with one or more members. When I say 53 new members who have volunteered they are indeed in addition to those who are already involved. That is great news.

I have tried reaching everyone who returned their surveys by e-mail or phone to thank. I have called everyone who has volunteered to thank. If I have missed anyone, I want to say "thank you for completing the survey" and "thank you for volunteering," we will certainly be calling on you.

Emel Yakali, chair-elect

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Hans and Marlies Zimmer International Scholar

Professor Norbert Jakubowski

April 4-8, 2005

The Department of Chemistry at the University of Cincinnati is very pleased to present the third series of lecture-visits by international scholars actively engaged in areas of frontier chemical research. Professor Jakubowski will present a public lecture as well as a four-hour short course during his stay. Details on the lecture follow below; see page 10 for short course details.

Instrumental Developments for Analytical Atomic Spectroscopy

Professor Norbert Jakubowski

Friday, April 8 4:00 PM, 502 Rieveschl
University of Cincinnati

Abstract

Since the early days of Bunsen and Kirchhoff atomic spectroscopy has developed to one of the most important tools for analytical chemistry, and even about 150 years later there is still a need to improve instrumentation. In this lecture some instrumental developments from the Institute for Analytical Sciences (ISAS) will be discussed, which had already led to new commercially available instruments in absorption, emission and mass spectrometry. At hand of selected examples it will be shown that these instruments extend the application range of atomic spectroscopy in particular in the material and life sciences. Finally, trends will be discussed how future instrumentation may become cheaper and more powerful by making use of miniaturisation strategies which can lead to "lab on a chip" systems with sample treatment, separation and detection integrated in one device.

About the Zimmer International Scholar

Professor Norbert Jakubowski of the Institute for Analytical Sciences, ISAS, Dortmund Germany. Professor Jakubowski received his BSc and MSc at the University of Essen and completed his dissertation work at the University of Hohenheim. He has over 90 publications, several years of experience in research as

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Antianxiety agents
Mood stabilization
Antipsychotics
Sedatives and related agents

Analgesics and related agents

Definitions, testing methods
Placebo effect
Anti-inflammatory analgesics: the inflammatory response, role of prostaglandins, survey of drugs in this category
"Coal tar" analgesics, possible mechanisms of action, metabolic aspects, toxicity
Opioid analgesics-survey of chemical types, "MPTP," receptors, mechanisms of actions, endogenous peptide analgesics

Cardiovascular Agents

Aspects of cardiovascular anatomy and physiology
Hypertension
Physiology of blood pressure regulation
Renin/angiotensin system
Antihypertensive drugs: physiology and pharmacology
Arrhythmias
Aspects of physiology
Agents used: pharmacological mechanisms

Physiology of muscle fiber contraction

Ion channels

Myocardial ischemia (angina pectoris)

Physiological aspects

Drugs employed

Cost

The course fee will be \$750 for ACS members and \$850 for non-members). The fee includes course materials, continental breakfast and refreshment breaks for all 3 days (**compare to \$1,345 and \$1,445 at the ACS National meeting**). Seating will be limited. Please call Rick White at 513-622-1624 and leave a voice mail with your name, affiliation, and phone number to reserve your seat today. Payment can be made by sending check or money order, payable to "Cincinnati Section ACS", to the address listed below, or you may pay by credit card at the CINTACS website (<http://www.che.uc.edu/acs>).

D. Rick White
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The last date to register is **Friday, April 14.**

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acs](http://www.che.uc.edu/acs)

Meeting Sponsors, 2004-5 Program Year, Cincinnati Section, ACS

Here are six of the seven sponsors for our monthly Section meetings in the new program year. We do not yet have a sponsor for the April meeting. This group of schools, industries, and individuals have each contributed a minimum of \$1000 (in kind or cash) to sponsor our meetings by covering most meeting expenses such as speaker travel, lodging, and food; guest meals, A/V expenses, and the pre-dinner Social Hour.

The Section is very appreciative of these sponsors and their contributions because they ultimately lead to better talks, higher attendance, and more value to meeting attendees. Please thank them for their generosity and let them know you appreciate their contributions to the Section. A good time to do this would be when the donor is recognized at the sponsored meeting.

September Meeting
October Meeting

No Sponsor Solicited
UC Chemistry Department

November Meeting
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A New Opportunity Has Come to Cincinnati

iSPACE is a 501c(3) nonprofit organization licensed by the National Challenger Center for Space Science and Education to build a Challenger Learning Center (CLC) in Sharonville to serve a 100-mile radius and 28 surrounding counties. CLCs are hands-on educational centers which use space shuttle simulators to inspire children in grades K through 12, as well as educators and the public - - specifically in the areas of science, math, and technology. CLCs were developed by NASA and are a living memorial to the tragedy of the Challenger space shuttle which had teaching as a part of its original mission. iSPACE has the backing of area schools and superintendents, some of whom sit on the iSPACE Board. There are two other CLCs in Ohio (Dayton and Toledo) which are extremely popular and very successful. All available programs are typically booked a year in advance, as the number of eligible students in the surrounding area exceeds the number of available slots in CLC programs by a factor of ~10-15.

Using space as a theme and the power of simulations as a teaching tool, CLC programs create an exciting and cooperative learning environment that raises students' expectations for success, fosters a long-term interest in math/science/technology, and motivates them to pursue careers in these fields. CLC recognizes that in order to make change happen within education, it must reach all parts of the system - students, teachers, schools, and communities. It has developed an array of hands-on and minds-on multidisciplinary programs to accomplish this - - both at the CLC and in the classroom before and after each simulated mission. The educational content is structured to support the National Science Education Standards as defined by the National Research Council, as well as national standards in math, geography, technology, and language arts.

HOW Does the iSPACE Program Fit with ACS objectives?

The CLC appears to fit several of our ACS objectives:

- National Chemistry Week and our other outreach programs
- Growing technical talent in scientific and engineering fields critical to our profession.
- Our interest in helping Ohio (and Cincinnati) attract technically-based businesses to the region.
- Support of local teachers and their students
- Our interest in increasing the number of minorities who choose to pursue careers in science.

Currently, about 75% of Cincinnati Public School 4th-6th graders do not pass the math and science proficiency tests. In addition, there is a drastic shortage of qualified math and science teachers and a lack of college students entering engineering, math and science fields. CLCs have a proven track record of inspiring and motivating achievement in math and science proficiency as documented through national studies. The hands-on learning approach which begins in the classroom, moves to the CLC, and then continues in the classroom also teaches life skills such as teamwork, problem-solving, communication, and decision-making, while building self-esteem.

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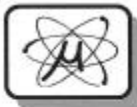
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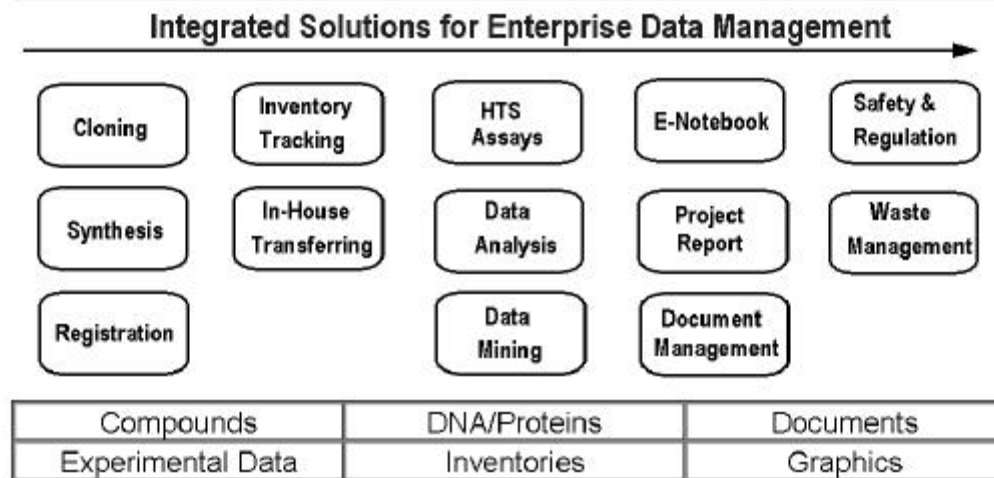
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(Continued from page 9)

well as significant teaching experience. Over the years he has been involved in active research at ISAS and is currently the Director of the department "Functional Genomics and Proteomics".

**Reception and Banquet
Friday, April 8, 2005
UC, Faculty Club**

5:30 p.m.	Reception following seminar
6:30	Dinner
7:30	Zimmer Program and presentation of Awards

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(Continued from page 5)

per Chair in Chemical Education and the History of Chemistry, a position which was endowed by Dr. Oesper upon his death in 1977.

Safety Publications from ACS

The ACS Joint Board-Council Committee on Chemical Safety (CCS) is pleased to announce the availability of the seventh edition of Safety in Academic Chemistry Laboratories (SACL). SACL is the flagship publication of CCS and has been in print continuously since 1972. This edition has two volumes: volume 1 for college and university students; and volume 2 for faculty, graduate teaching assistants, and administrators. With this latest edition of SACL, CCS has now produced new safety booklets within the last two years for all academic levels: Safety in the Elementary (K-6) Science Classroom; Chemical Safety for Teachers and Their Supervisors, Grades 7-12; and SACL. All of these publications may be ordered from ACS (single copies are free) and may be viewed in PDF on the Committee website, <http://chemistry.org/committees/ccs>.

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