



Vol. 82 (7) October 2006

ISOTOPICS

The Cleveland Section of the American Chemical Society

On Deck:

Wednesday, November 15

William Greensburg
*The Art and Science of
Stained Glass*

Baldwin Wallace College

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October Meeting Notice

**Joint Sponsorship with the Akron ACS and
the Society for Applied Spectroscopy**

Wednesday, October 18, 2006

Noveon

4:30 pm	Executive Committee Meeting
5:30 pm	Social Hour
6:30 pm	Dinner
7:30 pm	After Dinner Talk
8:30 pm	Informal Discussion

Fiber Optic Technology in Lighting – Changing the Way People Light Their Spaces

Chris Jensen, Fiberstars

Fiberstars Inc, a publicly traded company on NASDAQ, is the world's leader in fiber optic lighting. Development and refinement of technologies at Fiberstars, including energy efficient high intensity discharge lamps, highly efficient light collection optics, and low light loss large core plastic optical fiber have propelled fiber optic lighting to new vistas. Fiberstars' EFO (Efficient Fiber Optics) is a breakthrough in lighting technology that changes the relationship between fiber optics and energy efficient lighting in a dramatic way. Fiberstars EFO system provides a means for equivalent lighting power at significantly reduced power usage. One 70 watt EFO lamp delivers the center beam candle power of eight 50 watt MR16 EXN Halogen lamps, replacing a total of 400 watts! With the implementation of stricter government regulations on energy use, more pressure will mount for the reduction of electrical use in all applications. Fiberstars' EFO is the most efficient fiber optic lighting system in the world. It is more efficient than halogen and other incandescent lighting, as well as compact fluorescent lamps. Developments in energy efficient lamps, collection optics, and plastic optical fibers will be reviewed.

DINNER RESERVATIONS REQUIRED: Please RSVP by contacting Zedeara Diaz, by phone at 216-368-3621 or by e-mail at zcd@case.edu by **Noon on Friday, October 13**. (For phone reservations, please clearly spell your last name and leave a return phone number.) Cost of the dinner is \$20 for members & guests and \$10 for students. Checks made out to "Cleveland ACS" are greatly appreciated. Menu includes: Chicken Piccata, Pasta Primavera, Green Beans Almondine, Rice Pilaf, Assorted Desserts, Coffee, Tea, and Water.

Directions to Noveon

From the north: Take Route 77 south, exit at Miller Rd. Turn left onto Miller Rd.; go to Brecksville Rd. and turn left at the light. Noveon is on the right.

From the south: Take Route 77 north, exit at Brecksville Rd. Proceed two miles north to Noveon. Turn right into Noveon at the second entrance.

From the east or west: Take I-480 to 77 south and follow directions "From the north" above.

From the Ohio Turnpike (I-80): Take exit 12 and proceed north on Brecksville Rd. Turn right into Noveon at the second entrance.

Speaker Biography

Chris Jensen's undergraduate work was performed at University of Utah where his claim to fame was taking analytical chemistry from Stanley Pons, just prior to the Cold Fusion confusion. His graduate work was completed at the University of California Berkeley in the area of organocerium synthesis. His career started with several years of work in corporate research at Rohm and Haas developing lubricating fluid viscosity index modifiers. Chris's next assignment was as a production chemist at Rohm and Haas' production facility in Deer Park Texas. He then returned to the Philadelphia area with Rohm and Haas with the assignment of developing large core plastic optical fibers for commercial sale. Fiberstars purchased the large core plastic optical fiber technology from Rohm and Haas and consolidated the work to Solon Ohio. Chris moved the production equipment from PA and came along to work at Fiberstars, further developing the technology.

Call for Nominations: Morley Medal

The Cleveland Section of the American Chemical Society annually sponsors a regional award, which consists of the Morley Medal and a substantial honorarium. The next presentation of the Morley Medal will take place at the local section meeting of the Cleveland Section ACS in May 2007. The award is presented at the awards banquet, at which time the recipient will deliver the Edward W.

Morley Lecture for that year. Travel expenses for the medalist and spouse will be provided.

The purpose of the award is to recognize significant contributions to chemistry through achievements in research, teaching, engineering, research administration and public service, outstanding service to humanity, or to industrial progress.

The area of eligibility includes those parts of the United States and Canada within about 250 miles of Cleveland. The contributions for which the award is given should have been made by the awardee when a resident of this area, or if a major contribution was made elsewhere, the nominee should have continued to make contributions while a resident of this area. Nominations may be made by any member of the American Chemical Society, The Chemical Society or the Chemical Institute of Canada.

Nominations for the Morley Medal should include a letter of nomination plus a curriculum vitae including the candidate's education, professional experience and activities, awards and honors, offices held and specifics on significant contributions. The letter of nomination should highlight these significant contributions. A representative list of references to the candidate's more important contributions, an evaluation of the significance of these achievements, and a listing of the nominee's most significant publications and patents are also appropriate. Strong seconding letters are suggested. The specific reference for every publication or patent is neither required nor encouraged.

Deadline for receipt of nominations is **December 1, 2006**. Send nomination and supporting material to (electronic submissions in Word are appreciated):

Elizabeth Dabrowski
Chair, Cleveland Section Awards Committee
Magnificat High School
20770 Hilliard Blvd.
Rocky River, OH 44116
Phone: 440-331-1572
Fax: 440-331-7257
Email: edabrowski@magnificaths.org (preferred)
edabrows@ix.netcom.com

Volunteer for NCW

National Chemistry Week (NCW) is Oct 22-28: The theme this year is "Your Home - It's All Built on Chemistry." Whether you want to be in the forefront by helping put on a chemistry/science demonstration in a library for children aged 7-10 or be more in the background helping to assemble demonstration kits, your commitment is important. You don't even need to know kids science to participate, just a desire to share our fun! Below is a summary of volunteer opportunities. If you are interested in volunteering, please contact Marcia Schiele (MarSchiele@sbcglobal.com) or Kat Wollyung (kat.wollyung@PerkinElmer.com).

NCW at the Great Lakes Science Center.

Kick-off activities are tentatively scheduled for October 21, 2006. We are looking for volunteers who are willing to spend a morning or afternoon assisting visitors with hands-on activities using our kit materials. No experience necessary, we will train you on site. There are two volunteer shifts; the first shift is 9:30 am to 1 pm and the second shift is 1 pm to 4:30 pm.

Grand Assembly of Kits (GAK) Day

GAK day is Saturday, September 30 starting at 10 am (approximately 8 am for coordinators) at John Carroll University, Dolan Science Center Room W318. Help count, label, and bag items into the 110 science kits to be given out to our program volunteers to entertain and educate thousands of students.

Dress Rehearsal

Dress Rehearsal is October 14 at from 10 am to 11:30 am (or Noon) at John Carroll University, Dolan Science Center Room W318 (Approx. 9 am for coordinators). All program volunteers and volunteer assistants should attend in order to pick up their script, kit, other supplies, and instructions.

CRCST

CRCST is October 21, 2006 at the Natural History Museum starting at 7am. Volunteers are needed to assist with one of the two demonstrations or man an information table.

SPECIAL NOTICE – ACS Central Regional Meeting

The ACS Central Regional Meeting will be held in Cleveland in 2009. We are currently forming the organization team to carry forward the meeting. The General Meeting Chair is Professor Daniel Scherson of CWRU and the Program Chair is Kenneth Street of NASA. Both Dan and Ken need co-chairs as a next step in the planning process. Other committee chair persons (finance, publicity, hotels, events, technical chairs, etc.) will be needed shortly. Anyone interested in applying for the positions of General Meeting co-chair, Program co-chair or is interested in volunteering to help with committees is encouraged to apply to Dr. Dan Scherson, by (a) post: Department of Chemistry, 10900 Euclid Avenue, Cleveland, OH 44106-7078, (b) phone: 216-368-5186, or (c) email: dxs16@po.cwru.edu.

Let's make this another exemplary meeting sponsored by the Cleveland Section!

Special Presentation – Madeleine Jacobs

ACS CEO Madeleine Jacobs will be the keynote speaker at the CSU College of Science Research Day on October 20, 2006 at the Cole Center on the CSU campus (E 30th Street, between Euclid and Chester, enter through Chester because of road construction on Euclid). The presentation is from 1 pm to 2:30 pm. Cleveland Section members are invited to attend the presentation.

Support National Chemistry Week!

The Cleveland Section's award-winning NCW programs need your help! Every year, local NCW activities bring the fun and excitement of chemistry to thousands of students, teachers, and parents throughout the Cleveland area. The generous outpouring of time and energy by dedicated volunteers help make our programs so successful, but **significant financial support is also needed.** Please consider making a donation to help. Contributions from individuals or corporations may be made out to the Cleveland Section ACS (please note "NCW donation") and mailed to the Treasurer (contact information on page 1). Donations to NCW are tax-deductible; receipts are available. Thank you.

Cuyahoga County Public Library Schedule*American Chemical Society, Cleveland Section**National Chemistry Week, 2006*

Libraries	Telephone	Date	Time
Brecksville	440-526-1102	Sat Oct 28	10:30 am
Brook Park	216-267-5250	Sat Oct 28	2 pm
Brooklyn	216-398-4600	Sat Oct 28	2 pm
Chagrin Falls	440-247-3556	tba	tba
Fairview Park Reg.	440-333-4700	Sat Oct 28	10 am
Garfield Heights	216-475-8178	Sat Oct 21	10 am
Gates Mills mini library	440-423-4808	Sat Oct 28	10:30 pm
Independence	216-447-0160	Sat Oct 21	2 pm
Maple Heights Reg.	216-475-5000	Sat Oct 28	2 pm
Mayfield Regional	440-473-0350	Sat Oct 28	10 am
Middleburg Heights	440-234-3600	Th Oct 26	7 pm
North Olmsted	440-777-6211	Th Oct 26	7 pm
North Royalton	440-237-3800	Sat Oct 21	11 am
Olmsted Falls	440-235-1150	Sat Oct 28	10 am
Orange	216-831-4282	tba	tba
Parma Heights	440-884-2313	Sat Nov 11	4 pm
Parma Regional	440-885-5362	Sat Oct 28	2 pm
Parma-Ridge	440-888-4300	Tues Oct 24	4 pm
Parma-Snow	216-661-4240	Sat Oct 21	1 pm
Solon	440-248-8777	Sat Oct 28	10 am
South Euclid/Lyndhurst	216-382-4880	Wed Oct 25	7 pm
Southeastern County (Bedford)	440-439-4997	Sat Oct 21	2 pm
Strongsville	440-238-5530	two on Oct 21	1 and 3 pm
Warrensville Heights	216-464-5280	Mon Oct 23	3:45 pm

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