

The Chemical Bulletin

100th Anniversary 1914 – 2014

<http://chicagoacs.org>

JANUARY • 2014

CHICAGO SECTION AMERICAN CHEMICAL SOCIETY Joint Meeting with the American Institute of Chemical Engineers THURSDAY, JANUARY 16, 2014

European Crystal Banquet & Conference Center
Parlor BC
519 W. Algonquin Road
Arlington Heights, IL 60005
847-437-5590

DIRECTIONS TO THE MEETING

From Chicago:

Take I-90 West. Exit at Arlington Heights Road and turn right (north). Go to the first stoplight, which is Algonquin Road. Turn left onto Algonquin and go ½ mile to European Crystal.

From Northern Indiana and South Suburbs:

Take I-294 North to I-90 West. Exit at Arlington Heights Road and turn right (north). Then follow the directions given above.

From I-290/I-355 or Route 53:

Northbound I-290 and I-355 merge with Route 53. Take these combined roads to Higgins Road exit. Merge onto East Frontage Road and turn right onto Golf Road. Go 2 miles and turn right onto Algonquin Road. Go 1/3 mile to European Crystal.

PARKING: Free

JOB CLUB

5:00 - 6:00 P.M.

RECEPTION:

5:30 - 6:30 P.M.

Cash Bar

DINNER

6:30 P.M.

GENERAL MEETING

7:30 P.M.



Dr. Jennifer Holmgren, Chief Executive Officer, LanzaTech

“Why Waste Carbon When You Can Put It To Good Use?”

Abstract: Increasingly there is a trend in being able to supply products such as fuels and chemicals that are not only economic, but that address key

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sustainability criteria. Today there is significant research into improving the overall carbon and energy efficiency of biorefineries to overcome challenges such as high energy demands, high capital costs, poor carbon utilization, or a combination of these factors. There is a potential to overcome these challenges when using wastes and residues to produce fuels and chemicals but commercializing such technologies involves strategic global thinking.

Wastes and residues are produced from a wide range of industries including gaseous waste carbon from industrial processes (steel mills, refineries, ferro-alloy plants and PVC plants) or from thermochemical processes such as gasification of biomass/MSW or reformed natural gas. These are conventionally used as a fuel source or flared before being released as CO₂.

LanzaTech offers an alternative solution.

The CO, H₂, and/or CO₂ contained in such feed gas can be fermented via a biocatalyst to fuels/chemicals such as ethanol, acetic acid or butadiene which also serve as building blocks to longer chained hydrocarbon drop-in fuels. LanzaTech's bio process uses a broad spectrum of gases from a variety of sources and offers superior carbon conversion, energy efficiency, and greenhouse gas emission performance compared to conventional and emerging routes to the same products.

The pathway to commercialization will be outlined showing how diversity of input gas streams enables the technology to be deployed across a variety of geographies at both a regional and national level, depending on which feedstocks are available.

A diverse product portfolio that includes chemical precursors for the production of plastics, nylon and 'drop-in' jet fuel will also be described. This has led to successful partnerships across a variety of sectors including steel, aviation and chemicals. These commercial and research partners across multiple industries and disciplines globally has helped maintain a level of innovation to continue to deliver an approach that makes intuitive sense the world over – why waste carbon when you can put it to good use?

Biography: Dr. Jennifer Holmgren has over 20 years of experience in the energy sector including a proven track record in the development and commercialization of fuels and chemicals technologies. Prior to joining LanzaTech, she was Vice President and General Manager of the Renewable Energy and Chemicals business unit at UOP LLC, a Honeywell Company. In that role, she led UOP's renewable business from its inception through to the achievement of significant revenues from the commercialization of multiple novel biofuels technologies.

Dr. Jennifer Holmgren holds a B.Sc. degree from Harvey Mudd College, a Ph.D. from the University of Illinois at Urbana-Champaign and an MBA from the University of Chicago. She currently serves on multiple external advisory boards. She is the author or co-author of 50 US patents, 20 scientific publications and is the 2003 recipient of the Council for Chemical Research's (CCR) Malcolm E. Pruitt Award.

ACS OFFERS SPECIAL BENEFITS FOR UNEMPLOYED MEMBERS

During these tough economic times it's more important than ever to belong to the American Chemical Society. Unemployment members can tap into a host of valuable benefits and services that help them get back in the workforce. And, members in good standing may qualify for an unemployed member dues waiver, allowing them to renew their memberships and keep their member benefits at no cost. Contact ACS at service@acs.org, 800-333-9511 or 614-447-3671 for complete details.

DINNER INFORMATION

Dinner reservations are required and should be received in the Section Office via phone (847-391-9091), email (chicagoacs@ameritech.net) or website (<http://www.chicagoacs.net/meetings/14jan.php>) by noon on Monday, January 13.

The cost is \$35 to Section members who have paid their local Section dues, members' families, and visiting ACS members. The cost to members who have NOT paid their local section dues and to non-members is \$37. The cost to students and unemployed members is \$20. Seating will be available for those who wish to attend the meeting without dinner. PLEASE HONOR YOUR RESERVATIONS. The Section must pay for all dinner orders. **No-shows will be billed.**

Menu: Entrée choice of Brochette of Beef on Bed of Rice with Three-Peppercorn Sauce, White Fish with Rice Pilaf, or Vegetarian pasta dish; dinner includes vegetable medley of broccoli, baby carrots & rutabaga, rolls and butter, beverage. Dessert is Apple Crumb Cake

EDITORIAL

Welcome to the January 2014 issue of The Chemical Bulletin and the start of another publication season. We hope you had a good holiday season and are looking forward to a new year of information related to chemistry and chemists in the Chicagoland area.

The Chemical Bulletin marks its 100th anniversary this year and there will be some historical tidbits from its archives throughout this year.

We are excited to celebrate this great milestone and the many articles that have been written and published. But most importantly, we are excited to celebrate how this publication has been a source of chemistry-related information (and sometimes, entertainment) for the readers.

Since the launch of *The Chemical Bulletin* 100 years ago, it has undergone different formats, has had many different "looks," has color added to some items, and is now electronically distributed -- adding to its media platforms.

There are also some more changes planned for the format of this newsletter and how it is made available to you. We hope that the upcoming changes will enhance the way the information is delivered to you and, in the long run, increase our readership. Stay tuned for further information as these enhancements unfold.

Be sure to check out the listing of upcoming events in the Calendar on the back page of this and every issue. If you know of a meeting, course, or other scientific activity that would be of interest to your fellow Section members, send the information to me for inclusion in the Calendar.

With each issue, we keep in mind our commitment to ACS, the Chicago Section's mission, and the goal of being one of your connections to chemistry-related information in the Chicagoland area and from ACS National.

If you have an idea for a new column, let me know. Keep in mind that any regularly featured column needs a regular contributor.

We are grateful to the many sponsors we have had over the years who have advertised in our publication. We continually need advertisers to maintain the vitality of The Chemical Bulletin. How about recommending this publication as a way of advertising to your suppliers and colleagues and for your own business? Our rates are reasonable and we reach out to 4,420 section members as well as to the general public who reads the publication online. We accept ads for products, services, and employment opportunities. If you are interested or you know of someone interested in running an ad, call the Section office at 847-391-9091 or email us at chicagoacs@ameritech.net.

We look forward to receiving articles for publications. While we cannot guarantee in which issue your article will appear, we try to publish submissions as timely as possible.

CHERLYN BRADLEY, EDITOR
(cbrad1027@aol.com)

"CHEM SHORTS" For Kids

The Elementary Education Committee of the Chicago Section ACS presents this column and hopes it will reach young children and help increase their interest in science. Please print it out and pass it on to your children, grandchildren, or elementary school teachers. Teachers are encouraged to incorporate the projects in this column into their lesson plans.

Be An Amateur Antiques Detective!

Kids, do you like using a black light to check for glowing objects? Do you like to solve clues and riddles? Are you curious about how things are made? If you answered yes to all of these questions then you might like this activity. Some antiques, collectibles and memorabilia have value if they're authentic and in good shape. Many people like to go to garage sales, antique shows, or even just "picking," to find interesting and valuable items.

It's often very hard to tell if an old object is authentic or fake, or if it's been repaired or touched up. But using a black light can offer some clues. That's because some telltale signs of repair and signs of age will fluoresce under ultraviolet light. Here are a few good black light tests as a place to start:

1. **Detect Ceramic Repairs.** Check an old-looking plate, teacup, or figurine in a darkened room. Use a handheld black light to check for repairs. If glue was used to repair cracks or replace chips, then it will be obvious under the black light. This is because modern glues fluoresce under ultraviolet light. Modern paints also fluoresce, so you can also see touch-ups and repainting jobs.
2. **Confirming Age of Paper Items.** Old postcards, books, signs, photos, posters etc. made before the late 1930's rarely glow under a black light. But the bleaches and dyes used in modern papers fluoresce strongly. Knowing this can help you detect a forgery or a fake.
3. **Dating Cloth Items.** Cloth items include clothing, stuffed animals, rag dolls, and quilts. Many modern cloth fibers, including sewing thread, are made of polymers like rayon and polyester. These glow under a black light. Items that don't glow might be old and antiques. However, even if they're old, they might glow if they've been washed. That's because modern laundry detergents have additives that glow. So these items need extra testing after they have been washed.

Check items around your home to see what you can deduce about their ages!

NOTE: Standard safety precautions apply -- do not look directly into the black light.

Reference:

About.com Antiques

"Ways to Test Antiques & Collectibles with a Black Light" by Pamela Wiggins

<http://antiques.about.com/od/resourcesforbeginners/tp/aa122205.htm>

Submitted by DR. KATHLEEN CARRADO GREGAR

To view all past "ChemShorts for Kids," go to: <http://www.chicagoacs.net/ChmShort/kidindex.html>

KIDS AND CHEMISTRY PROGRAM

The Chicago Section of the American Chemical Society is in the process of reviving the "Kids & Chemistry" program. The "Kids & Chemistry" is a community-based program that brings together scientists and children to do hands-on science activities at local schools. The Section will provide kits and supplies for the classroom. Each kit must be checked out and returned to the section within one week of the classroom presentation. Current kits that will be available are: "Buno the Elephant's Toothpaste" (grades 1st-5th) contributed by Elizabeth College Student Chapter; "Chemistry is More Than Hot Air!" (Grades 3rd & 4th) contributed by Northwestern State University Student Chapter; and "Lava Lamp" (Grades 2nd-5th) contributed by Chi Epsilon Mu (XEM) Chemistry Club at Austin Peay State University. Future kits available in 2014 will be "Jiggle Gels: (Grades 3rd-5th); "What's New, CO₂? (Grades 4th-6th); and "Chemistry Rainbow" (Grades 5th-8th).

We are currently looking for individuals who would like participate in this program. The section will match volunteers to a school requesting the "Kids & Chemistry" program or you may directly contact a school in your area. Volunteers can be from the industrial, government or academic sectors or can be from a student chapter at local colleges or universities or science clubs at local high schools. Please contact Fran Kravitz if you are interested in becoming a volunteer presenter in our "Kids & Chemistry" program at **fk1456@sbcglobal.net**. Indicate "Kids & Chemistry" in the subject title.

FREE T-SHIRTS

The Hospitality Committee raffles one T-shirt at each monthly dinner meeting. The shirt has **CHICAgO** spelled out using the periodic table. So come to a monthly meeting and maybe you'll win one!

SECTION MEETING DATES 2014

Thursday, January 16
Thursday, February 20
Friday, March 28
Thursday, April 24
Friday, May 16
Thursday, June 19
Friday, September 19
Friday, October 24
Thursday, November 20
Friday, December 12



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LETTER FROM THE CHAIR

Dear Chicago ACS Members,

Thank you for electing me to be your Section Chair. In 2014 I'll endeavor to bring you a high level of service aligned with ACS' main themes: professional development, chemistry education, chemical information, and outreach.

My philosophical goal for the year is to make the Chicago ACS a strong regional resource for the chemistry enterprise. Our Section includes some of the finest minds in our field and is home to massive scientific, industrial, and educational operations. Yet most of us know little about what our colleagues on the other side of the metropolis are up to. I would like 2014 to be the year we get out and meet our neighbors, learn from one another, and coordinate our efforts for mutual benefit.

This year we can look forward to some exciting new developments aimed at bringing our members together and catalyzing interaction. Early in the year, we will be adopting a new web platform, thanks largely to the hard work of the Public Relations/New Technology Enhancement Committee, chaired by Russ Johnson. More than a new website with an updated look and feel, it will bring improved email service, integrated event registration, and tools that facilitate communication by our committees. We will be specifically targeting improvements in our online employment resources, promotion of volunteer opportunities, and legislative advocacy. To enable our far-flung members to take part in our board activities, we recently brought high-quality teleconferencing to the Section office. We are also exploring ways to transform our monthly dinner meetings into webcasts and to promote webex-style participation in our board meetings.

For 2014, I would like to try new formats in some of our dinner meetings, making them more amenable to productive networking for young professionals and students. We have not yet finalized our full program for the year, but anticipated topics include employment instability, hydraulic fracturing, food chemistry, and the research of specific award-winning chemists. I am working with our distinguished Program chair, Frank Jarzembowski, to locate more meetings near public transportation so it will be easier for students and city-dwellers to attend. Some meetings should feature panel discussions and party-style dinners, both of which encourage active dialog and meeting our chemistry neighbors.

The Chicago Section of the ACS exists for our members and our members' institutions – not only to help, but also as an organizing principle. If there is anything you would like to see us do or change, please let us know. I personally encourage you to bring me your ideas and opinions via the "contact the chair" link at chicagoacs.org.

Thank you. I hope to see you this year.

JOSH KURUTZ

THE CHEMICAL BULLETIN ADVERTISING RATE SCHEDULE

The Official newsletter of the Chicago Section American chemical Society, The Chemical Bulletin, publishes news and information of interest to the Section's 4,420 members, who are professional chemists and others in related professions in industry, academia and government throughout greater Chicago.

SIZE	DIMENSIONS	RATE
Full Page	7.5" wide x 10" depth	\$700
2/3 Page (2 columns)	4.917" wide x 10" depth	\$530
1/2 Page	3.75" wide x 10" depth	\$500
1/3 Page (1 column)	2.333" wide x 10" depth	\$360
1/2 Column	2.333" wide x 5" depth	\$190
Business Card	3.5" wide x 2" depth	\$95

We accept ads sent in jpg, tif, Photo Shop, Indesign and pdf files. For more information, contact chicagoacs@ameritech.net or call 847-391-9091.

ASK AN ACS CHEMIST

Do you remember being a student, and searching for an answer to a relatively simple question for a term paper, homework or maybe a project of some sort? Rather than spending copious amounts of time perusing periodicals and journals, it would have been much easier to pose your question directly to someone who has expertise in the field, right? Well, there are many students now facing the same dilemma and we would like you – the expert – to lend them a helping hand.

The ACS has launched a new program called "Ask an ACS Chemist." The Publications Division technical support staff for ACS journals receives about 10-15 science-related inquiries each week, typically from high school and undergraduate students. The questions are usually along the lines of:

How does the microscopic method determine particle size?

Which enzyme is inhibited by zinc in Alzheimer's disease?

What is chemical equilibrium?

Currently when we receive these questions, one of our staff members directs the student to a host of journals where they may or may not find an answer. We would like to offer the students a more personal touch by sending their questions to a collective of scientific professionals, such as yourself, and allowing you to share your expertise on the subject matter. We anticipate this initiative will require very little commitment on your end; you may participate as often as you choose.

The format will be a set of threaded posts in an ACS Network group to which you would be invited to join. You would then begin receiving the notifications as new questions are posted and you log in to view and/or comment where you feel comfortable. All we would need from you to participate is a reply to this email letting us know you are interested and we will invite you to join the Network group. Just think how immensely such a modest connection between you and a student could impact their future in chemistry.

If you have any questions about this program, feel free to contact outreach@acs.org.

NOTICE TO ILLINOIS TEACHERS

The Chicago Section ACS is an ISBE provider for professional development units for Illinois teachers. Teachers who register for this month's meeting will have the opportunity to earn CPDU's.

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ESTABLISHING A SENIOR CHEMISTS COMMITTEE (SCC) FOR THE CHICAGO SECTION AND A REPORT ON THE FALL NATIONAL SCC MEETING IN INDIANAPOLIS

As many of you know, the ACS has formed a new Joint Board-Council Committee on Senior Chemists (formerly the Silver Circle Committee) effective January 1, 2013. The mission of the Committee is "to enrich the educational, technical, and cultural lives of the ACS membership by employing the talents of senior ACS members." An interesting statistic is that 37% of ACS members are over 50.

Now we would like to start a Senior Chemists Committee (SCC) for the Chicago Section. Our Immediate Past-Chair, Dr. Mike Koehler, presented a motion to the Chicago Section Board of Directors in December to establish a local SCC, and he asked me to chair the first Chicago SCC.

We are considering a separate luncheon meeting for Senior Chemists rather than meeting at the regular Section evening meetings. I would like to ask the readers of the Bulletin who have a preference of a luncheon meeting or meeting in the evening with the Section to let our Section Office Manager, Gail Wilkening, know by sending her an email at chicagoacs@ameritech.net or telephoning the office at 847-391-9091.

I would like our Section members to know that the National SCC had a second Undergraduate Speed Networking Event with Chemistry Professionals at the Indianapolis National Meeting very much like we did in New Orleans during the spring ACS National meeting. Again for Indianapolis, we had about fifty 30-inch round tables in the Convention Center with a senior chemist professional at each table. About 100 undergraduate chemistry majors were invited to visit individually with a senior chemist for about six minutes to ask questions and "to partake of senior chemist wisdom."

Each undergraduate had the opportunity of visiting with about twenty of the senior chemists during the course of the event. I was one of the professionals, and I had an exciting time conversing with the undergraduates. A particularly interesting conversation was with a student from Nepal. Another interesting session was with a student from China who figured out how to make use of the ACS. As with the students in our first Speed Networking group in New Orleans, each student wanted "a job." I encouraged them to think about what they wanted to do with their lives—what excited them.

CLAUDE LUCCHESI

A BRIEF HISTORY OF THE CHEMICAL BULLETIN

- 1895** Chicago Section of the ACS is chartered on March 15, 1895. Section membership is 34.
- 1914** *The Chemical Bulletin* is founded by Otto Eisenschiml. Section operating deficit is underwritten by individual members in 1914 and 1915.
- 1923** A part-time office to handle *The Chemical Bulletin* business is located at Schaar and Company. Part-time secretarial help is also authorized for the Employment Committee, and located variously at Wilson Laboratories, Dearborn Chemical Company, and Schaar and Company.
- 1934** The new business address of *The Chemical Bulletin* and of the Chicago Section was The Stevens Hotel, Room 413.
- 1942** Chicago Section office and *The Chemical Bulletin* operations move to Medinah Club when the Stevens Hotel is taken over by the U.S. Army. Section membership is 2,053.
- 1945** Chicago Section office and *The Chemical Bulletin* operations move to the Fine Arts Building. Section meetings were held at the Furniture Club. Section membership is 2,627.
- 1960** "Loco Chemical Co. News" featured column began. The items as poems and prose reported in this column were invented by a group of irreverent members in a large pharmaceutical "company" under the name of Sir J. Conrad Bleet.
- 1991** The Section's office moves to 7173 N. Austin, Niles, IL. One of the publication business managers for *The Chemical Bulletin* during the section's stay at this location is through TEI Analytical.
- 1992** "ChemShorts" For Kids column is started as a regular feature in *The Chemical Bulletin*.
- 2002** The 100th installment of the "ChemShorts" For Kids was published in the February issue of *The Chemical Bulletin*.
- 2006** An electronic version of the Chicago Section's newsletter, *The Chemical Bulletin*, is established on the Section's website. Section membership is 4,600.
- 2009** The Section's office moves to 1400 Renaissance Dr., Suite 312, Park Ridge, Illinois, Niles, IL. Publication business manager for *The Chemical Bulletin* is Frank Jarzembowski.
- 2014** *The Chemical Bulletin* marks its 100th anniversary.

PROJECT SEED 2014

Applications are now being accepted to participate in the 2014 ACS Project SEED Program. The Project SEED Program places economically disadvantaged high school students in academic, industrial, and governmental research laboratories during the summer. Under the supervision of volunteer scientists, students work on projects that expose them to the chemistry environment.

For additional information, visit the Project SEED website at www.acs.org/projectseed. The application deadline is January 31, 2014. If you have any questions, please e-mail projectseed@acs.org, call (800) 227-5558, ext. 4380 or contact Kathy Mortell, our section's new Project SEED chair, at Kathleen.Mortell@abbvie.com.

**REGISTER ONLINE for
Chicago Section
monthly meetings
<http://www.chicagoacs.net/register.php>**

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Mass-Vac., Inc.	5	978-667-2393	www.massvac.com
Pittcon	7	412-825-3220	www.pittcon.org

MEMBERSHIP APPEAL - COMMITTEE ON MINORITY AFFAIRS

The Committee on Minority Affairs (CMA) supports the claim that ACS places high priority on active involvement of minorities. The objective of the committee is to cause change in institutional culture and obtain the goal of full participation and expression of intellectual and creative capacity of these minorities.

A list of what CMA is expected to do is included on the parent organization's webpage. Included are the promotion and recognition of the professional accomplishments of Minorities; attraction of minority students to the chemical professions; identify minority-friendly education institutions and businesses; increased involvement of minorities at local, regional and national levels; provision of mentoring to minority students; compilation of best practices for recruitment, retention, career development, and evaluation of programs for the advancement of minorities.

Our Local Section has a Committee on Minority Affairs. Ongoing efforts are being made to attract members to join this committee. Past committee activities included involvement of minority students matriculating at local institutions by extending invitations to participate in a section meeting such as the educational night monthly dinner meeting. The committee has a modest budget from which the students' dinners are sponsored. Ideas are welcomed from potential volunteers as well as members. Tapping into the America Chemical Society's new initiative to assist unemployed chemist in networking and finding employment the local CMA has a great opportunity to add this to the list of "things to get more involved in" now. I appeal to you, fellow members of the section to step forward and assist in strengthening and building a vibrant Committee on Minority Affairs.

CHARLES CANNON
Chair, Chicago Section CMA

CALENDAR

January 5: Lederman Science Center: Ask-a-Scientist Guided Tour of Fermilab: "The Science of Climate Change," by Erik Ramberg. 1 - 4 pm at Fermilab, Wilson Hall, Kirk Road and Pine St., Batavia. Free. Register by Jan. 3. http://eddata.fnal.gov/lasso/program_search/calendar_new.lasso

January 14: Hooke College of Applied Sciences: Infrared Microscopy. 8 am - 5 pm at 850 Pasquelli Dr., Westmont. There is a brief discussion of infrared theory, and a heavy emphasis on using FTIR microscopy in problem-solving applications. The emphasis is on student sample preparation exercises and the use of different spectral acquisition methods to obtain optimum results. Cost is \$1995. www.hookecollege.com/courses/course.asp?COURSE_ID=85

January 16: Joint dinner meeting of the Chicago Section ACS and the AIChE. See details in this issue.

January 21: The Annual IIT Bridge Competition at IIT's Main Campus (Hermann Hall). You can find information on the Bridge Competition at: <http://bridge.phys.iit.edu>

February 13-17: AAAS National Meeting in Chicago. There will be a free Family Day event on February 15 and 16 at the Hyatt Regency which is open to the public.

February 20: Chicago Section dinner meeting will be held jointly with the Joliet Section at Lewis University. Dr. John Flanyak will be the speaker.

February 21: Chicagoland Engineering Awards Benefit, The Palmer House Hilton, 17 East Monroe Street, Chicago; Reception at 5:30 pm Dinner and Award Presentations at 6:30 pm. Featuring the 101st presentation of the Washington Award to: Bill Nye the Science Guy for helping to foster a scientifically literate society making science entertaining and accessible. For future information and sponsorship visit www.chicagolandweek.org

February 22: Dupage Area eWEEK Expo 30th Anniversary, IIT -Rice Campus, <http://www.dupageeweek.iit.edu/>

March 2-6: PittCon 2014 will be in Chicago and co-programmed with the ACS Division of Analytical Chemistry. For further information, go to www.pittcon.org.

March 28: Chicago Section dinner meeting

JOB CLUB

The next meeting of the **Chicago Section ACS Job Club** will be held on **Thursday, January 16 at 5:00 p.m. at the European Crystal Banquet & Conference Center**. The meeting will include a review and discussion of some of the tools that a chemist can use to conduct a job search.

Should you wish to attend the Section's dinner meeting following the Job Club, the cost is \$20 and you can continue your networking activities. Please call the Section office for reservations and indicate that you are eligible for a discount.

Also, the Chicago Section's website has a link to the Job Club's yahoo job forum group. If you can't attend the Job Club, you can still find out about job openings and other information.

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