

# CHEMISTRY NEWSLETTER

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March 5, 2004 Volume 31 No. 10

## VISITING SPEAKERS

### \*\*\* TODAY \*\*\*

The University of Alberta Department of Chemistry *Alberta Ingenuity Centre for Carbohydrate Sciences* presents visiting speaker **Dr. Robert A. Field**, Centre for carbohydrate Chemistry, School of Chemical Sciences and Pharmacy, University of East Anglia, Norwich, Great Britain, who will speak on “from glycosides and sugar nucleotides towards chemical genomics” on March 5, 2004 at 11:00 a.m. in V-107

The University of Alberta Department of Chemistry *analytical division* visiting speaker presents **Prof. Luis Colon**, Department of chemistry, State University of New York (SUNY) Buffalo, New York, who will speak on “Chromatographic materials and very high pressure approaches for liquid chromatography” on Friday, March 5, 2004 at 4:00 p.m. in V-106.

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**Dr. R. Tom Baker**, Chemistry Division, Los Alamos National Laboratory will speak on “Precious metal phosphonium complexes as potential bifunctional catalysts” on Friday, March 12, 2004 at 2:00 p.m. in E3-25.

Department of Chemistry, University of Alberta 2004 Merck Frosst Lecture series presents, **Prof. Alois Fürstner**, Max-Planck-Institut für Kohlenforschung, Mülheim an der Ruhr, Germany who will speak on “Recent advances in alkene and alkyne metathesis” on Monday, March 15, 2004 at 11:00 a.m. in V-107.

**Prof. Jed Harrison**, Department of Chemistry, University of Alberta, CSC lecture series, will speak on “microchip technologies for biochemical analysis” on Wednesday, March 17, 2004 at 7:00 p.m. in V-110.

**Prof. Gren Patey**, Department of Chemistry, University of British Columbia will speak on “Structure in confined fluids: Phase transitions, forces and friction on Thursday, March 11 at 2:00 p.m. in E3-25.

### 502 SEMINAR

**Kristopher Harris**, will speak on “A molecular dynamics approach to chemical reactivity” on Wednesday, March 10, 2004 at 11: a.m. in V-107.

## NOTICES

**NMR Newsletter on the web with the following content:** d600 - printing and plotting , Data station for remote access to ibdw , NMR-related forms on the web , ibd5: registration for access , Use of spectrometers without on-line reservations , Data time axe for gennmr and ch461

**Cumulative Exams:** The next cumulative examination will be held on Saturday, March 6, 2004 at 11:00 a.m. in Room E5-36.

## EMPLOYMENT OPPORTUNITIES

ARE POSTED ON THE BULLETIN BOARD  
ACROSS FROM THE ELEVATORS ON THE THIRD FLOOR  
PLEASE DO NOT REMOVE THE EMPLOYMENT NOTICES FROM  
THE BULLETIN BOARD

**Employment opportunities are posted on a new internet site:**  
<http://www.careerowl.ca>

**National Institute for Nanotechnology** requires a Electron Microscopy Technical Officer. Contact person Thelma Finch, Human Resources Systems Coordinator (780492-8695

**University College of Cariboo** requires full-time, ongoing faculty position for chemical biology.

**University of Kansas**, Lawrence KS has post doctoral positions in biochemistry/biophysics and microbiology, Department of Medicinal Chemistry. Send application to [sdavid@ku.edu](mailto:sdavid@ku.edu).

**Brandon University**, the Department of Chemistry has an opening for a tenure track position for biochemistry. E-mail [wrightj@brandonu.ca](mailto:wrightj@brandonu.ca)

**Alberta Sulphur Research Ltd.** Located in the Department of Chemistry at the University of Calgary is seeking to appoint a physical chemist.

**Bayer Pharmaceuticals Corporation**, Department of Chemistry, West Haven facility is seeking a synthetic organic chemist.

**ChemRoutes Corporation** is a new Edmonton-based chemical contract synthesis company supplying intermediates, proprietary kits and tools to the pharmaceutical, biotechnology, chemical and genomic industries. To cope with the recent growth, our development and production laboratory facility has immediate requirements for highly motivated and creative candidates who can interact effectively in a team environment.

**Industrial Post-Doc Scientists:** Recent Ph.D. graduate in medicinal/organic chemistry responsible for route development, optimization and synthesis of new ChemKits™

**Organic/Medicinal Chemists:** As a member of a dedicated team, you will participate in the design, synthesis and characterization of target molecules. Candidates with Ph.D./MSc/B.Sc. degrees in Organic and Medicinal Chemistry and experience in multi-step synthesis of complex organic molecules in the biotech or pharmaceutical industry are encouraged to apply. Strong interpersonal and communication skills are required. Please respond in confidence by email stating desired position, experience, education and salary expectation to [chemroutes@worldnet.att.net](mailto:chemroutes@worldnet.att.net) . Resumes can also be faxed to 780-496 9307.

**University of Notre Dame**, postdoc position in computational sciences, in the Department of Chemistry and Biochemistry.

**Outreach Activities** can be accessed at:  
[www.ualberta.ca/Outreach/whats%20new.htm#science](http://www.ualberta.ca/Outreach/whats%20new.htm#science)

...NOTICES CONTINUED...

### Graduate Students

If you are preparing to be interviewed for a non-academic, or an academic position, take advantage of the services provided by Career and Placement Services (CaPS).

1. On-line workshop "Interviewing Skills for Scientists" offered by Science's Next Wave in conjunction with York University (for non-academic position)
2. CaPS workshop "The Academic Interview"

For detailed information on these workshops, check the bulletin board by the mailboxes.

## University of Alberta Department of Chemistry Achievements and Recognitions

Congratulations:

On Friday, February 27 the Graduate Students' Association held their *10th Annual Awards Night Ceremony*. On this occasion *University Teaching Services Graduate Student Teaching Awards* were presented to Jamie Cote, Ebbing de Jong, Bryan Demko, Jonathan Mane, Corbin Ralph, Weijie Wang and Ross Witherell. Katie Campbell won the *Graduate Students' Association Graduate Student Teaching Award* (this is the third year in a row that one of our GTA wins this award) and Leon Lau was awarded the *Meloche Monnex Award for Outstanding Student Service*. The Department extends our congratulations and thanks for your dedication to and excellence in teaching and service to the GSA.

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Congratulations to Rik Tykwinski on winning the 2004 Faculty of Science Research Award. This Award provides recognition and career enhancement for the Faculty's most outstanding and highly promising young researchers. It recognizes research carried out primarily after appointment at the University of Alberta.

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Congratulations also to Rod Wasylshen who has won the John C. Polanyi Award of the Canadian Society for Chemistry for excellence in research in Physical and Theoretical Chemistry.

# This Weekend in History

## March 5

**Emmett Joseph Culligan** born 1893: water softening; founder of world's largest water treatment organization.

## March 6

**Joseph von Fraunhofer** born 1787: discovered dark lines in solar spectrum (Fraunhofer lines)

## March 7

**Antoine-César Becquerel** born 1788: first to use electrolysis of metals from ores; grandfather of Henri Becquerel.

**John Hall Gladstone** born 1827: refractive index of gases and its relationship to density.

**Arthur Hantzsch** born 1857: organic acids; electrical conductivity of organic compounds; stereochemistry of nitrogen compounds.

**John Frederick William Herschel** born 1792: invented photography on sensitized paper; introduced terms "positive" and "negative" to photography (as well as "photography" itself); astronomer and son of astronomer William Herschel.

**Stanley Lloyd Miller** born 1930: Miller-Urey experiment producing amino acids from electrical discharge in reducing atmosphere.

**Ludwig Mond** born 1839: discovered Mond producer gas and nickel carbonyl; Mond process for purifying nickel; cofounder of the company which later became Imperial Chemical Industries (ICI)

**Joseph-Nicéphore Niépce** born 1765: earliest photochemical imaging/photography