

VISITING SPEAKERS...TODAY...

**The National Institute for Nanotechnology** invites you to a presentation by Dr. George John, Rensselaer Nanotechnology Center, RPI, NY, USA who will speak on "Lipid nanotubes from renewable resources: A new paradigm" on Friday, February 20/04 at 12:00 p.m. in NINT's conference room (6<sup>th</sup> floor, ECERF Bldg.) \*\*\*\*\*

The University of Alberta Department of Chemistry *organic division visiting speaker presents Prof. Dirk Trauner*, Department of Chemistry, University of California-Berkeley who will speak on "Chemistry mimicking nature – and taking it a step further" on Monday, March 1, 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.

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

**Prof. W.A. van Wijngaarden**, Department of Physics and Astronomy, York University, will speak on "Bose Einstein condensation in a QUIC trap" on Monday, February 23, 2004 at 11:00 a.m. in V-107

**Dr. A. Meldrum**, Department of Physics, University of Alberta, will speak on "Optical properties of silicon nanocrystals" on Thursday, February 26, 2004 at 11:00 in E3-25 Chemistry.

NOTICES**Graduate Students who are on Study Permits**

If your current social insurance card does not have an expiry date on it, please see Ilona by the end of February.

**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.

**Chemical Biophysics Symposium 2004** — March 12 - 21, 2004 in Toronto. The abstract submission deadline is TODAY (Friday, February 6). Please note that abstracts for the invited speakers are now available on the web site at [www.chem.utoronto.ca/symposium/biophys/cbp2k4/](http://www.chem.utoronto.ca/symposium/biophys/cbp2k4/)

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>

**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.  
**Eastern Kentucky pending approval**, Department of Chemistry requires Assistant Prof. Of Chemical Education (tenure track); Assistant Prof. Of Organic Chemistry (tenure track); visiting prof. Of Chemistry (non-tenure track)  
**York University** is seeking candidates for two tenure track assistant Professor positions in the area of organic and inorganic chemistry.

**Enantioselective Synthetic Chemistry Research Program 2004** — Applications are invited for the Enantioselective Synthetic Chemistry Research Program. This program, sponsored by AstraZeneca Canada Inc., Boehringer Ingelheim (Canada) Ltd and Merck Frosst Canada and Co., and administered by the Canadian Society for Chemistry (CSC), will provide grants to support research in chemistry and related fields. Additional information may be found at [www.chemistry.ca/cscawards.html](http://www.chemistry.ca/cscawards.html) or the posters on the bulletin boards.

**University of Manitoba**, Chemistry Department Instructor II for a three year term beginning July  
**Chemistry Department, U of Calgary**, 3 year limited term instructor for organic chemistry

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

## A Month on Physics Education/Participation

The *IONCMASTE Discussion Group* starts a new series with the book **They're not Dumb, They're Different: Stalking the Second Tier** by Sheila Tobias. (An occasional paper on neglected problems in science education published by Research Corporation.)

**Wednesday, February 25, 2004** (Paper 2a & 2b of a series)

### 2a. Introductory Physics: The Eric Experiment

"The notion of a 'calling' is deeply ingrained in the mythology and history of science. If we assume that all students are 'called' in the same way and by the same age, we fix what is inherently variable--the size and composition of the talent pool."

### 2b. In Pursuit of Chemistry: Tom, Laura & Stephanie

"There has to be room in science for people who did not ask for a chemistry set at age five" Harry Ungar, chemistry instructor at Cabrillo

**Wednesday, March 3, 2004** (Paper 3 of a series)

### 3. Towards a More Conceptual Way of Teaching Physics

Does physics always have to be quantitative? Can't it be qualitative? Can you know physics if you just know it quantitatively? What does qualitative/conceptual have to offer?

<http://www.ioncmaste.ca/> and [ioncmaste@ualberta.ca](mailto:ioncmaste@ualberta.ca)

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# This Day in History

## February 20

**Isaac Adams, Jr.** born 1836: pioneer in nickel plating.

**Ludwig Boltzmann** born 1844: statistical mechanics; thermodynamics, especially the second law; Maxwell-Boltzmann distribution of molecular speeds;

**Stefan-Boltzmann** law of blackbody radiation; Boltzmann constant is named after him

**Henry Eyring** born 1901: chemical kinetics (transition-state theory, Eyring equation)

**Helen Murray Free** born 1923: diagnostic chemistry: reagents and instrumentation for clinical diagnosis in blood and urine chemistry, histology, and cytology

**Robert Huber** born 1937: three-dimensional structure of proteins involved in photosynthesis; Nobel Prize, 1988

If anyone would like to announce Chemistry achievements and/or recognitions of our professors and/or Graduate Students in our "Achievements and Recognitions Section" please e-mail [jeannette.loiselle@ualberta.ca](mailto:jeannette.loiselle@ualberta.ca)



Simply looking  
forward to spring

