Message from the Chair

It gives me great pleasure to introduce the 4th issue of our annual newsletter, The McMaster Chemical Extracts. The department is now in the midst of a period of significant change and renewal, so we have much to report.

Two new faculty members have joined the department this year. Alex Adronov is a polymer chemist who received his B.Sc. from Mac in the mid-90’s and then went on to graduate work at the University of California at Berkeley. Pippa Lock, also a Mac graduate, began her teaching faculty position with this past summer session of Chemistry 1AA3. We’re conducting searches this year for at least five other new faculty members, in areas that include biomolecular NMR, synthetic/medicinal organic, theory, experimental physical chemistry, and environmental analytical chemistry. Several more will be added to the list next year.

Work began last month on the new undergraduate chemistry labs, with renovations to the first floor of the “west wing”, where many of you did your 2nd and 3rd year organic and inorganic labs. Once complete, the wing will house laboratories for our physical and analytical chemistry courses in addition to some new research space. Work will begin in September on the old geology wing, where the rest of our undergrad labs are to be housed. The plans call for all of this to be completed in time for the beginning of term in September 2002. January 2002 will mark the beginning of construction of our new 20,000 sq. ft.
research wing, which will be located at the end of the building’s west (chemistry research) wing. As you learned last year, the new research space was made possible partly by our success with two major grants from the Canada Foundation for Innovation/Ontario Innovation Trust – one in materials chemistry led by Harald Stöver, and one in biological chemistry led by Brian McCurry. The total bill for all of this new construction comes close to $23M, and the university is still actively fundraising for it.

The 2nd McMaster Chemistry Alumni Symposium will be held this year on Homecoming Weekend (Saturday, October 20), and will feature talks by alumni Jim Richards (Ph.D. 1983; National Research Council of Canada), Bob Syvret (Ph.D. 1987; Air Products & Chemicals, Inc.), Adrian Schwan (Ph.D. 1988; Univ. of Guelph), Richard Perrier (Ph.D. 1989; Petro-Canada), and Mark Workentin (Ph.D. 1992; Univ. of Western Ontario). We’re very excited that these individuals have agreed to attend the Symposium, and look forward to seeing them again and being brought up to date on what they’ve been up to since leaving Mac. I hope to see a number of you there as well. Admission is free.

We hope you enjoy this latest edition of McMaster Chemical Extracts. Please endeavour to write and let us know what you think, and what you’ve been doing since we saw you last.

Willie Leigh
Professor & Chair

Funding Highlights

In July of 2000, the Department received the good news that the Canada Foundation for Innovation (CFI) had approved an application entitled "Biomolecular Interactions Initiative", which in combination with funding from the Ontario Innovation Trust and private partners will provide a total of almost $13 million in infrastructure funding to McMaster. The Biomolecular Interactions CFI/OIT application marks a new spirit of cooperation between the Departments of Chemistry and Biochemistry at McMaster, which has been building over the past few years and received a boost last year with the hiring of our two joint faculty members, Professors Paul Berti and Yingfu Li. These two individuals, along with John Brennan, Paul Harrison, Brian McCurry, John Valliant, and a handful of faculty members from the Department of Biochemistry, form a core group of faculty in our two departments with key research interests in the burgeoning field of chemical biology. The grant money will spawn a variety of new collaborative projects aimed at studying the interactions between small molecules and biological macromolecules.

Since the announcement of the award, things have been quite busy for the principal investigator, Brian McCurry, and for a number of the 16 other co-applicants from our department and the Department of Biochemistry. Many of the major purchases, including new 600 MHz and 700 MHz NMR instruments, GC-TOF and Q-TOF mass spectrometers, a protein crystallography system, a 16-processor SGI computer and a variety of optical instruments, have been ordered or received. Furthermore, final plans for the new research wing are nearing completion, and we are hoping to have a ground breaking ceremony sometime in November 2001, with occupation of the new wing slated for early in 2003. Roughly $3 million of the CFI money will be used for the construction of three floors of a new five story addition to the chemistry research wing of ABB (including the basement). Funding for the other two floors was acquired last year as part of another CFI initiative entitled Advanced Materials; these two floors are slated to support an expansion of polymer chemistry research in the department. The Biomolecular Interactions CFI/OIT grant also includes money for renovation of equipment facilities, in-
Alex Adronov
Nanocomposites and Supramolecular Polymer Chemistry

Alex Adronov, a McMaster Chemistry graduate (B.Sc. 1996), obtained his Ph.D. at the University of California, Berkeley under the supervision of Prof. Jean M. J. Fréchet.

His current research is concerned with the synthesis and study of nanoscale structures with potential applications in disparate areas such as molecular electronics, sensory devices, and molecular encapsulation and transport. Specifically, his research will focus on the development of novel functional nanocomposites from polymers and carbon nanotubes, as well as aspects of supramolecular polymer chemistry.

Carbon nanotubes – molecular-scale fibers or ropes composed solely of carbon – provide examples of nanoscale architectures. They have attracted much attention due to their unique structural, electronic, and mechanical properties. For example, single- and multi-walled nanotubes are thought to be ideal building blocks for the preparation of extremely strong and resilient, yet lightweight composites. In addition, due to their electrical conductivity properties, they have been studied as dopants for conducting polymers, components for molecular electronics, and as additives in light-emitting and photovoltaic devices. Although initial studies of these materials are encouraging, realization of the full potential of carbon nanotubes will likely require greater control of their solubility, processability, and functionality. Progress towards such goals will allow the manipulation of these structures in a precise manner, one molecule at a time. Thus, beyond the development of novel functional nanocomposites, one envisions the realization of truly molecular-scale devices utilizing the mechanical and electronic properties of carbon nanotubes to accomplish tasks such as controlled molecular motion and addressability.

Dr. Adronov’s research will involve discovering new ways to functionalize and solubilize carbon nanotubes with macromolecules such that the predicted applications of these fascinating materials can be achieved.

Within the field of supramolecular chemistry, Dr. Adronov’s research interests stem from the observation that the virtually infinite variety of structure and function seen in living organisms is derived from a relatively small set of elementary building blocks. This diversity is often achieved through the noncovalent assembly of small subunits into

(Continued on page 4)
To me, a student is not an empty vessel waiting to be filled up with knowledge. Rather, a student is a rich tapestry, and brings their own life experience and talents to the class. I recognize that, like myself, my students have many interests outside of chemistry and teaching and learning. I share who I am with my students, and in doing so I hope to create an atmosphere of trust and mutual respect.

Ultimately, my goal is for teaching to be a rewarding experience both for the students and myself. Part of my current focus is understanding student learning styles, and incorporating strategies in my teaching that will meet the needs of all types of learners.

larger, more complex macromolecular structures. Nature’s assemblies range from small protein subunits forming a functional unit to the spontaneous formation of entire organisms from small building blocks – eg. the tobacco mosaic virus. Today, chemists utilize supramolecular chemistry to assemble complex structures through similar non-covalent interactions.

The association of small molecules into discrete, well-defined structures – including “supramolecular polymers” – requires monomers that fit together with strong intermolecular interactions such as hydrogen-bonds and electrostatic interactions. Because of their strength and directionality, hydrogen bonds are often seen as the “glue” of choice for the assembly of supramolecular polymers. H-bonded polymers are widely used by Nature to encode information (DNA double helix) and preserve structure (α-helices and β-sheets within proteins). Due to the strength and reversibility of the hydrogen bond, synthetic H-bonded polymers can be produced with lengths and properties that are greatly dependent on concentration, temperature, pH, and additives. Tunability of properties within supramolecular polymers may lead to the development of an important new class of functional materials.

reminds them how valuable other people can be as resources.

“It is my hope that students will walk away from a chemistry course having learned some of the fundamentals of chemistry, but also having developed some ability to question, to think logically and to solve problems. These skills are transferable to any course, and beyond.

“It is important for an effective teacher to understand what motivates students to learn; there are many factors. One of the tools I have found most useful is to bring to students examples that connect to their own life experiences. There are two benefits to this. The first is that students will be engaged by examples to which they can relate. Secondly, such examples allow us to get at the heart of a particular concept, rather than getting caught up in a complicated illustration.

“We also discuss everyday situations where our current topics may be applicable. I refer to my students as chemists, and ask them to put themselves in situations where they are doing a chemist’s job, in order to think about solving a problem. I believe that the power to solve questions already lies within students, and my role is to facilitate the development of their abilities, with guidance, and appropriate questions, where necessary.

“Dr. Barbara Russer has accepted a contractually-limited faculty appointment in the Department at the rank of Lecturer. She remains in charge of the Level I undergraduate laboratories and now acts as Coordinator for the Level I chemistry program.

Leah Allan has been promoted to the (new) position of Special Projects Coordinator in the Department. Her duties involve coordinating construction and renovation projects involving research and teaching in the Department, and serving as the department’s technical expert liaison for faculty and staff with physical plant and external engineering and architectural firms. She retains her former roles as Undergraduate Laboratory Coordinator for Physical and Analytical Chemistry, and technical support to the McMaster Regional Centre for Mass Spectrometry.

Recently appointed Professor Allyson Perrott moved on to a new position at Selkirk College, in Castlegar, British Columbia. Dr. Perrott was with us for one year. Her new home is on the Co-
The McMaster Chemistry Graduate Student Society

2000-2001 Executive Members:
Back row (l-r): Paul Schaffer, Bola Sogbein, Cam Harrington
Front row (l-r): Maggie Wang, Lisa Heydorn, Paul Zelisko, Laura Harrington, Lisa Croll
More information on the MCGSS are available on our website ...
http://www.chemistry.mcmaster.ca/mcgss/. E-mail the executive at mcgss@mcmaster.ca.

Good Times and Good Friends… MCGSS Year in Review

The 2000-2001 academic year proved to be extremely eventful for the McMaster Chemistry Graduate Students’ Society (MCGSS). For yet another year the Department of Chemistry was regaled with a number of tube-steak lunches, filling the halls of the first floor with wonderful smells. The support of the students, faculty, and staff of the Department during these fundraisers helped pave the way for the numerous events throughout the year.

Many events this year occurred in conjunction with the McMaster Undergraduate Chemistry Society (MUCS). At the beginning of the school year our two student organisations came together to arrange a road trip to Emma’s Back Porch in Burlington, and a spirited soccer matching the undergraduates against graduate students and faculty. Despite the talent at both ends of the field, the graduate students and faculty managed to hand the undergrads a crushing defeat (although the undergrads may not agree).

Students and faculty alike displayed their creativity as they dressed up in their ghoulish best for the annual Halloween Party at the Phoenix. Never one to disappoint, Dr. Willie Leigh was awarded the prize for best overall costume.

The MCGSS started a new tradition, sponsoring trips to GlaxoWellcome, Eli Lily, and Dofasco, who graciously provided guided tours of their facilities.

Students got a glimpse of industrial careers available to them upon graduation.

Amidst a gentle snow fall, the MCGSS hosted the annual Department of Chemistry Christmas Party at the Hillcrest Banquet Hall. Holiday cheer abounded as the evening culminated in the arrival of Santa Claus, or as he is known in France, Père Noël. This event was truly a show of the holiday spirit as a number of individuals pulled together to not only make the Christmas Party a reality, but also a huge success.

During the year members of the Department saw the Raptors take on the Detroit Pistons at the Air Canada Centre in Toronto. Other activities included scaling the walls of the Gravity Climbing Gym.

With summer came the annual Departmental Barbeque at the Dundas Driving Park and Golf Day at Knollwood Golf Club in Ancaster. Prizes at the Golf Day were awarded for the “Top Foursome”, “Longest Drive”, and the “Most Honest Score”. The day of golf was followed by good times and good friends at the Phoenix.

In conclusion, the MCGSS Executive would like to take this opportunity to thank all of the students, faculty, and staff that helped to make this a year to remember. If you would like to revisit some of the events that took place this year, visit our picture galleries at www.chemistry.mcmaster.ca/mcgss.

Paul Zelisko & Lisa Heydorn

At the annual Departmental Barbeque, Dundas Driving Park.
Student Highlights

Undergraduate student highlights include the exploits of Matt Moran who won the 2001 Monsaroff competition, and 2001 Hyperchem award for the best Chemistry 4G6 student research presentation. James Varghese won a Dow T.A. Award recognizing his enthusiasm and dedication demonstrating freshman chemistry laboratories.

Graduate student highlights include Lisa M. Croll’s Canadian Society for Chemistry Award for Best Materials Division Presentation/Poster. Lisa works with Dr. H.D.H. Stover. As an undergraduate, Hyunsoo Park won a Dow T.A. Award for excellence in demonstrating freshman chemistry laboratories. She has since undertaken graduate studies with the supervision of Dr. J. Barbier.

Laura Harrington and Steve Jenkins won Dow T.A. Awards for their much appreciated efforts demonstrating second year physical and organic chemistry, respectively.

Graduate student Scholarships

Lisa Heydorn (Terlouw): Sherman Award
Matt Moran (Schrobilgen): Ontario Graduate Scholarship
Tom Owens (Leigh): Ontario Graduate Scholarship Science & Technology
Peter Dorff (Valliant): Ontario Graduate Scholarship
Hyunsoo Park (Barbier): Ontario Graduate Scholarship
Bernie Pointner (Schrobilgen): Ontario Graduate Scholarship
Laura Harrington (McGlinchey): NSERC Postgraduate Scholarship B
Paul Schaffer (Valliant): NSERC Postgraduate Scholarship B
Neil Vasdev (Schrobilgen & Chirakal): NSERC Postgraduate Scholarship B

McMaster Chemistry Alumni Symposium
Keynote Speakers

Dr. James Richards
Dr. Richards received both his Bachelors degree and Ph.D. from McMaster University under the supervision of Dr. Ian Spenser, and is currently the Director of Immunohemistry at the Institute for Biological Sciences at the National Research Council of Canada in Ottawa. Dr. Richards will be speaking about the “Functional Genomics of Carbohydrate Expression in Bacterial Diseases: Tales From a Chemist’s Perspective”.

Professor Adrian Schwan
Dr. Schwan spent his time at McMaster working under the supervision of Dr. John Warkentin and received his Ph.D. in 1988. Currently, Dr. Schwan is a professor at the University of Guelph and his talk is entitled “Novel α,β- Unsaturated Sulfur Acid Derivatives”.

Dr. Robert Syvret
Currently the Lead Researcher at Air Products and Chemicals, Inc. in Allentown, PA, Dr. Syvret conducted his senior undergraduate thesis at McMaster with Dr. O. Edwin Hileman, and received his Ph.D. in May of 1987 for research that he had conducted in the group of Dr. Gary Schrobilgen. Dr. Syvret’s talk is entitled “Industrial Fluorine Chemistry: What Good Is Fluorine Chemistry Anyway?”.

Professor Mark Workentin
In 1992 Dr. Workentin received his Ph.D. from McMaster after completing research in the area of photochemistry under the supervision of Dr. Willie Leigh. Dr. Workentin is currently an Associate Professor at the University of Western Ontario and will be speaking on the “Photochemistry of Organic Molecules on Metal Surfaces”.

Dr. Richard Perrier
Dr. Richard Perrier received his Ph.D. from McMaster University under the supervision of Dr. Michael McGlinchey. He is currently employed by Petro-Canada.

Dr. Angela Sielhoff and colleagues from Dow Chemical Canada celebrate the 1999/2000 Dow TA Award Winners in front of the McMaster University Club on Sept. 27th, 2000. Third, fourth and fifth from left are Hyunsoo Park, James Varghese and Steve Jenkins, respectively. Laura Harrington is 2nd from right.
Mary Anne White (Ph.D. 1979) was inducted into the McMaster University Alumni Hall of Fame on June 2, 2001. The induction ceremony was held at Convocation Hall.

Mary Anne researches thermal properties of materials, teaches university chemistry, and is involved in activities to bring science to the general public. Her enthusiasm and appreciation for science shows through in all her activities. She is currently Killam Research Professor in the Department of Chemistry at Dalhousie University.

Mary Anne has studied, taught and conducted research at the University of Western Ontario, Oxford, Waterloo, Dalhousie and McMaster. She has appeared on National radio and television (CBC and Discovery Channel). Her long list of awards and honours include—for distinguished contributions to physical chemistry—the 1996 Noranda Award of the Canadian Society for Chemistry, and the 1994 Sunner Memorial Award for research in thermodynamics. She was named “one of the 94 people who make Halifax happen”, and listed in the International Who’s Who of Professional and Business Women, American Men and Women of Science, Men and Women of Distinction, Who’s Who of Canadian Women, and World’s Who of Women.

Mary Anne’s career goals are to advance and disseminate knowledge, and to encourage interest in science. The broader theme of her teaching philosophy is “reasoned thought” which includes reasoning “outside the classroom—in real life”. She encourages questions and a general sense of wonderment in the world around us.

... Funding

(Continued from page 2)  
cluding renovation of the Department’s NMR, MS and General Instrument Facilities to provide the space necessary for the addition of the new equipment to our arsenal. More information on these CFI projects, and architectural drawings of the new addition, can be found on our web site (www.chemistry.mcmaster.ca).

John Brennan  
Professor

... News

(Continued from page 4)  
lumbia River in Trail, 25 km from Castlegr.

Tammy Feher joined the departmental secretarial staff last year. She is currently on maternity leave. Undergraduate laboratory staff member, Diane Crawshaw, is also on maternity leave.

Halloween Party

Top photo (l-r): Gosia Dawid, Paul Zelisko and Marcus Kim.

Departmental Golf Day


Bottom Right (l-r): Mike McGlinchey and Peter Dawson.
A New Beginning: Undergraduate Laboratory Construction

After over a year of design and preparation, work has now begun on the new undergraduate chemistry wing. In September 2002, chemistry students from 1st year to 4th year will enter the 4 floors of the north wing of Arthur Bourns Building and thus christen the new laboratories.

Where the geology department once resided, we will now house state-of-the-art labs, prep spaces and special instrument facilities. McMaster will become a leader in design and approach to experimentation in undergraduate chemistry. Concepts and practices, developed over the last few years, such as microscaled experiments, will be expanded upon and new approaches, such as GMP/GLP (Good Management/Laboratory Practices) compliant labs, will be introduced.

Current health and safety practices were key issues in the lab design. Every student will have fumehood space in which all experiments will be conducted. Glass sides and backs in these hoods give a clean and spacious look to the already spacious lab rooms. Impact on the environment was another design consideration - water and reagent waste will be significantly reduced.

With a look to the future, all labs will be wired for Internet access allowing students to view MSDS (Material Safety Data Sheets) information, or check the course web site for updates to the online lab manuals. This will also facilitate integration of computers into future experiments beyond integration already in place in analytical and physical chemistry laboratories.

Each floor will have a distinctive yet integrated look, complimenting the rest

(Continued on page 11)

The 1st Annual McMaster Chemistry Alumni Symposium

The 1st McMaster Chemistry Alumni Symposium was held on Saturday, September 23, 2000, at the A. N. Bourns Building. The one-day event was presented by the McMaster Chemistry Graduate Students Society and the Undergraduate Chemistry Club and was organized by graduate students Nadine Merkley and Nada Reginato. Excellent talks by distinguished alumni were featured.

André Bandraud (Ph.D. 1968), Fellow of the Royal Society of Canada and a distinguished theorist in the chemistry department of l'Université de Sherbrooke, gave a whirlwind tour of the theory of molecules in intense laser fields. He described rapid advances that have taken the field from computer simulation, and the imagination of practitioners such as himself, to recent experiments - the stuff of science fiction novels - ranging from laser induced fusion to alignment of molecules with high-powered lasers.

Jo-Ann Banisch (B.Sc. 1992, M.Sc. 1995) spoke on her kinetic studies of drug molecule diffusion in topical ointments through a membrane barrier for GlaxoWellcome Canada. She provided students with a glimpse into the exciting opportunities that exist for them in the industrial and corporate world.

Allan Jackson (B.Sc. 1973, Ph.D. 1977) shared his wealth of knowledge on wine and the wine industry - especially recent developments regarding the health benefits of red wines. Dr. Jackson, co-owner of Jackson-Triggs Vintners, played a leading role in the maturing of the Canadian wine industry.

Danial Wayner (B.Sc. 1980), Group Leader of the Molecular Interfaces Program at the Steacie Institute for Molecular Sciences at The National Research Council of Canada, described cutting edge experiments performed by his group, including dazzling chemical control of surface adsorbrates and breathtaking surface images - again, the stuff of science fiction.

Mary-Anne White (Ph.D. 1979), Killam Research Professor in Materials Science at Dalhousie University, shared her deep enthusiasm for physical chemistry focusing on the thermal properties of materials and their manifestations - familiar and otherwise - in the world around us. She demonstrated her unique ability to bring the excitement of materials science to a general audience.

The Symposium ended with a wine-tasting, compliments of Allan Jackson, and a banquet in Celebration Hall. Enthusiasm amongst faculty, students and alumni of the Chemistry Department was high enough to ensure that the McMaster Chemistry Alumni Symposium will be annual Homecoming Weekend event.

L-R: Willie Leigh (Chair of Chemistry), Nadine Merkley, Nada Reginato, Dan Wayner, Mary Anne White, Jo-Ann Banisch, André Bandraud and Allan Jackson
Graduate vs. Faculty/Staff Softball Game

The graduate students challenged faculty and staff, captained by Paul Berti, to a softball game in Aug. 2001.

Things started out badly for the faculty and staff, as the “mercy rule” was invoked in the first inning to limit the graduate students to 11 runs. However, the tide started to turn in the 7th inning when the faculty/staff scored 9 runs. Paul Berti’s team scored another 8 runs in the 9th. Unfortunately, there are only 9 innings in a baseball game. The game ended with a final score of 36 to 21 in favour of the graduate students.

Hi to everyone who still remembers me,

I always think fondly of my time in the Chemistry Department at this particular time of the year (party time!). That's when I actually miss working. I seem to have lost touch with most of you over the last couple of years and would love to hear from anyone who is interested in keeping in touch.

I still love living here on Vancouver Island. We actually had our first "snow storm" last week. It wasn't anything like I remember from back east, but everything came to a standstill - quite funny. The more I see of BC, the better I like it. I actually saw bears this year - wow!

I hope everyone is well and you all have a great time over the holidays. Here's hoping that I hear from some of you soon!

All the best to you for the coming year,

Paula (from the "wilds" of Fanny Bay in the beautiful Comox Valley)

We Heard From ...

The following is a letter from Paula Martin, former departmental secretary—including secretary to the Chair. She emailed the letter to the Chemistry Department on Dec. 21, 2000.

Anal Chemists Win Phoenix Cup

The Anal Chemists (the department's softball team) won the Graduate Student Association Softball League Championship on Aug. 26, 2001. The league includes approximately 30 teams of graduate students and alumni representing many departments across campus. The Anal Chemists had to endure 7 games over the weekend, including 4 consecutive single elimination matches yesterday to capture the Phoenix Cup. The last 3 Championship games all involved tremendous come-from-behind wins in the final inning. The team showed incredible perseverance in accomplishing this unprecedented feat. The Phoenix Cup will be proudly displayed in the Chemistry office for the next year.

John Kaldis
Captain, Anal Chemists
In December 2000, the department was saddened to learn of the passing of Professor Emeritus Donald Eaton while on vacation in the Caribbean. Dr. Eaton was born in England, educated at Oxford and spent a postdoctoral period in Ottawa (where he met his wife, Katherine) before going to Dupont's Central Research Laboratories in Wilmington, Delaware. Having already established his reputation as an expert in magnetic resonance, he came to McMaster in 1968 and rapidly built up a strong inorganic chemistry research group, many of whose members now hold positions in academia, government or industrial laboratories.

Aside from his own important contributions to our understanding of the kinetics and mechanisms of catalytic processes, Don was always willing to take the time to talk about other people's research problems, and his often brilliant insight led to numerous joint publications with grateful colleagues. After taking early retirement in 1989, he travelled widely with Katherine, but still visited the department regularly and entertained us with his dry humour. Don Eaton was not only a leading researcher, but also a scholar and gentleman whose many kindnesses to students and young faculty members will long be remembered.


2001
- Sonya Balduzzi: PDF, McMaster University, Hamilton ON
- Adrienne Boden: Ontario Ministry of the Environment, Toronto ON
- Pippa Lock: Assistant Professor, Department of Chemistry, McMaster University, Hamilton ON
- Fernando Martin: PDF, U. of California at San Francisco, San Francisco, CA

2000
- David Bayles: SWI Systemware, Toronto ON
- Vasiliki Bartzoka: Postdoctoral Fellow, NRC, Ottawa ON
- Mario Bieringer: Scientist, Institut Laue-Langevin, Grenoble, France
- Nicholas Burke: Research Associate, McMaster U.
- Bruce Cook: 3M Canada, London ON
- Jeffrey Downey: Advanced Packaging Technologies, Oshawa, ON
- Gabi Eustatiu: Scientist, Barringer Research, Mississauga ON
- Randy Frank: Senior Research Chemist, 3M Canada, London ON
- Michael Gerken: NSERC Postdoctoral Fellow, U. of Southern California, Los Angeles CA
- Paul Hazendonk: Assistant Professor, Department of Chemistry & Biochemistry, U. of Lethbridge, Lethbridge AB
- Wenyi Jiang: Intelligent Detection Systems, Nepean ON
- Frank Laronde: MDS Proteomics, Calgary AB
- David Lavorato: NSERC Industrial Postdoctoral Fellow, MDS Sciex, Concord ON
- Sudarshi Regismond: Biopolymer Physical Chemist, Unilever Research Colworth, Sharnbrook, U.K.
- Darren Reid: Postdoctoral Fellow, U. of Calgary, Calgary AB
- David Stachera: Zenon Environmental, Oakville ON
- John Himmeldirk: Crompton Corp., Friendly WV
- Nicholas Tolli: Eli Lilly, Scarborough ON
- Paul Venneri: GlaxoSmithKline, Mississauga ON

1999
- Laurie Allan: Varian Canada, Mississauga ON
- Gisle Amow: Postdoctoral Fellow, Institute for Chemical Process and Environmental Technology, NRC, Ottawa ON
- James Dunn: NSERC Ind PDF, then R&D, Imperial Oil, Calgary AB
- Lorne Fell: MDS Sciex, Concord ON
- John Pezacki: Novartis Institute, San Diego CA
- Mark Stradiotto: Assistant Professor, Department of Chemistry, Dalhousie U., Halifax NS


2000
- Lena Andrew: Ph.D. Candidate, U. of Alberta, Edmonton AB
- Janevieve Jones: AT Plastics, Brampton ON

1999
- David Lévy: BASF, Toronto ON
- Barbara Fir: Rhodia North America—Ontario Power Generation, Mississauga ON
- Nada Reginato: Ph.D. Candidate, McMaster U.
- Daryl Vanbesien: Xerox Research Centre, Mississauga ON
of the Arthur Bourns Building, painted this summer (2001). Tiling will set off the recessed doorways. Each floor will have its own colour scheme.

When students graduate with a degree in chemistry from McMaster University, they will be unique in their knowledge of, and experience with, standard GMP/GLP laboratory practices and procedures. This, along with their knowledge of current analytical instruments, will be an asset to any potential employer.

Finally, after 35 years, the entire chemistry department will once again be housed under one roof. This move of all undergraduate labs from Burke Science to the Arthur Bourns Building, will signify not only a new era of innovation and learning in undergraduate chemistry, but strengthen and unite the staff and faculty of this department. As the proximity of the research and undergraduate labs is reduced from buildings to mere steps, the interaction between the two areas will enhance learning and create greater crossover between the areas, benefiting staff as well as students.

This move will have a positive, rewarding and long lasting impact on practical experience gained in chemistry at McMaster, both in research and undergraduate laboratories.

Leah Allan
Special Project Coordinator & Undergraduate Coordinator for Analytical & Physical Chemistry

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McMaster Undergraduate Chemistry Society

2000-2001 Executive

Co-Presidents: Steve Carew, Ann Joseph
Vice-President: Jeff Landry
Secretary: Esta Halliday
Treasurer: Savitha Thampi
Social Convenor: Marie Rosati
4th Year Reps: Mark Marynowicz, Greg Potter, Suzy Simonetti
3rd Year Reps: Greg Bahun, Greg Smith
2nd Year Reps: Lindsay Carill, Michelle Mascoll, Michele Riordon
Faculty Advisor: Ignacio Vargas-Baca

The traditional MUCS-sponsored lecture series featured Harald Stöver and Ignacio Vargas-Baca. Professor Stover’s talk entitled “Romeo and Juliet: The relationship between polymers and solvents” made vivid the drama of intermolecular interactions, and the romance of polymer chemistry. Professor Vargas-Baca’s presentation, “Building supramolecular structures with transition metals and oligonucleotides” gave us glimpses into the elegant machinations of molecular self-assembly and molecular-level engineering of material properties.

MUCS also sponsored a very successful graduate school information session which featured faculty and graduate student representatives from a variety of Canadian Chemistry Departments. The event included a panel of graduate students discussing their experiences and answering questions.

Recent Graduates

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<tr>
<th>Ph.D.</th>
<th>Defense Date</th>
<th>Supervisor</th>
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<tbody>
<tr>
<td>Sudarshi Regismond</td>
<td>January, 2000</td>
<td>F.M. Winnik</td>
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<td>David Bayles</td>
<td>August, 2000</td>
<td>R.F.W. Bader</td>
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<td>Randy Frank</td>
<td>September, 2000</td>
<td>H.D.H. Stöver</td>
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<td>Dave Stachera</td>
<td>September, 2000</td>
<td>R.F. Childs</td>
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<td>Bruce Cook</td>
<td>September, 2000</td>
<td>W. Leigh</td>
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<td>Michael Gerken</td>
<td>September, 2000</td>
<td>G. Schrobilgen</td>
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<td>Jeffrey Downey</td>
<td>October, 2000</td>
<td>H.D.H. Stöver</td>
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<tr>
<td>Sonya Balduzzi</td>
<td>February, 2001</td>
<td>M. Brook</td>
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<tr>
<td>Fernando Martin</td>
<td>March, 2001</td>
<td>R.F.W. Bader</td>
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<td>Adrienne Boden</td>
<td>June, 2001</td>
<td>B. McCary</td>
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<tr>
<td>Pippa Lock</td>
<td>July, 2001</td>
<td>M. McGlinchey</td>
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<th>M.Sc.</th>
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<tr>
<td>Lena Andrew</td>
<td>February, 2000</td>
<td>B. McCary</td>
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<tr>
<td>Aaron Price</td>
<td>January, 2001</td>
<td>P. Brassard</td>
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We’d like to hear from you! Please fill out and return this form, including news of your current activities and whereabouts. Suggestions for the next issues of *Extracts* are also appreciated.

Unless you request otherwise, we will feel free to mention any details in future issues.

☐ I do NOT wish this information to appear in the newsletter.

UPCOMING ALUMNI EVENTS

**Saturday, October 20**
Whidden Hall Reunion
Celebrating 40 years as a residence. For more information, contact Michelle Siple ’98, Alumni Officer, Reunions & Recognition at siplem@mcmaster.ca or by phone at (905) 525-9140 ext. 23071

The McMaster Alumni Association presents
The Fall 2001 MAC Luncheon Series
All lunches are held at the Hamilton Convention Centre. Reception begins at 11:30 a.m. and lunch is from Noon - 1:30 p.m.

September 25: Ron Foxcroft,
President of Fluke Transport & Warehousing and inventor of the Fox40 whistle
"Whistling For Canada Around The World"

October 16: Douglas Goold,
’68 Editor of the *Globe & Mail’s* Report on Business Magazine
“Who’s a Survivor?: The Canadian Newspaper Wars”

November 27: George Dark,
Partner, Urban Strategies Inc. "Crisis or Opportunity: What to do about Downtown Renewal"

The Fall 2001 Albert Lager Event Series
At Convocation Hall unless otherwise indicated.

“True Confessions of An Art Collector” Maryella Leggat ‘93
September 11 7:00 pm to 9:00 pm
272 North Shore Blvd. West, Burlington

“Did the Earth Move?” Dr. Ahmed Ghobarah
October 4 7:00 pm to 9:00 pm

“Discovering the Truth about the Burlington Races, September 28, 1813” Commander Robert Williamson ’62
October 24 7:00 pm to 9:00 pm

“Love From A Stranger” at the Shaw Festival with lecture by Dr. Helen Ostovich
November 13
Buses depart from the Meadowlands Centre (Costco), Ancaster at 9:00 am and return between 6:00 and 6:30 pm.

“Pop Goes the University” Dr. Susie O’Brien
November 22 7:00 pm to 9:00 pm

For more events and more details about events (& in some cases, tickets) go to www.mcmaster.ca/ua