



## Quick Stats of the Inorganic Chemistry Exchange from 2004 – 2014

Number of student **applicants** for ICE 2014: 33 (32 in 2013)

Number of supervisors (departments) for ICE 2014: 12 (12)

NSERC USRA success rate for ICE in **2014: 8/12**; 2013: 7/8; 2012: 6/11

Total number of **ICE scholars** since 2004: 91 (93 exchanges as two students did ICE twice)

Total number of faculty supervisors since 2004: 41

Total number of participating Universities since 2004: 22

NSERC USRA success rate for all ICE scholars since 2004: 70/91 (77%)

ICE scholars who have gone on to graduate school in chemistry: 52%<sup>1</sup>

Number of papers published from ICE-related research: 27 (as of May 2014)

- Contact Lisa Rosenberg (ICE Webmaster) to add any publications by ICE Scholars to the website

## ICE (Inorganic Chemistry Exchange) Report May 2014

ICE is a program giving talented undergraduate students who have completed 2 or 3 years of a chemistry degree a chance to carry out summer research in inorganic chemistry at an institution other than their own. Its goals are to promote Inorganic Chemistry, to identify and support potential graduate students, and to establish networks for undergraduate researchers who will eventually have chemistry-related careers. The program is now in its *tenth* full year (there was also a pre-ICE trial in 2004, in which one student traveled from Ottawa to UVic for the summer). To date, 91 *ICE scholars* have been recruited for 93 exchanges (two students did ICE twice), and we have had 41 faculty supervisors from 18 different schools (with four other universities providing students to ICE but not hosting one). The success rate of securing NSERC USRAs for these students is currently 77%. Of the students who have participated in ICE and completed their undergraduate degrees, about half (exact numbers to be confirmed as of May 2014) have gone on to graduate studies in chemistry, with many of these students receiving NSERC PGS awards. Many students have gone on to professional schools (medicine, pharmacy, law, engineering), which is expected given most ICE scholars are top of their class. Furthermore, research conducted by ICE students has resulted in them being co-authors on over 25 papers published by their supervisors.

In September 2008, John Corrigan (Western) took over for Lisa Rosenberg for a two-year term as ICE Chair, with Lisa having the position as past Chair. In 2010, Chris Kozak succeeded John as ICE Chair for two 2-year terms. *Following the 2014 ICE workshop, Andrew Grosvenor (Saskatchewan) will succeed Chris for a 2-year term.*

## 9th ICE Workshop, Calgary, August 22-23, 2013

In 2013 the annual workshop was hosted at University of Calgary and organized by George Shimizu. It was a successful meeting for all faculty and student participants.

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<sup>1</sup> Does not include current ICE students, or past students still completing undergrad



On the evening of Aug 22<sup>nd</sup>, there was a “meet and greet” for all faculty and the 8 student participants. The following day, all student participants gave 20-minute lectures on their summer research. As has been the trend, the quality of both the research and the presentations was exceptional. The plenary lecturer for 2013 was Jeremy Rawson (Windsor). At the end of the day, all workshop participants attended a banquet held at a local restaurant.

### **Highlights from the 2013 ICE planning meeting**

The faculty held their annual ICE planning meeting on August 22<sup>nd</sup>. It was confirmed that the 10<sup>th</sup> ICE Workshop (2014) would be hosted by Chris Kozak in St. John’s on August 21<sup>st</sup> and 22<sup>nd</sup>, 2014. The 11<sup>th</sup> ICE workshop in 2015 will take place in Toronto (Ryerson University) on August 20<sup>th</sup> and 21<sup>st</sup>, hosted by Bryan Koivisto.

Anyone interested in more details on these discussions should contact Chris Kozak for a copy of the meeting minutes.

### **ICE 2014**

An e-mail was circulated to the membership of the CIC ID via the mailing list in early August, 2013 inviting anyone interested in supervising/hosting an ICE student to contact Chris Kozak. The response was very strong and several new participants have signed on. In addition, there was interest from Faculty members that they would recruit student participants for the program even though they would not be in a position to take a student themselves.

Three new faculty joined ICE in 2014: Mario Bieringer (Manitoba), Eric Rivard (Alberta) and Xavier Ottenwaelder (Concordia). There are 12 students participating in the program this summer, who were selected from 33 qualified applicants, including one applicant coming from a University lacking a local ICE representative (Laval).

This year, some students backing out during the matching stage complicated matching up supervisors and applicants. Also, some supervisors did not have any students who ranked them first. Nonetheless, all supervisors were paired up with students who accepted their offers of ICE placements.

**The USRA competition was more competitive this year (8 of 12 received USRAs) than in 2013 (7 of 8) and similar to 2012 (7 of 11). USRA success in other years: 2011 = 10 of 13; 2010 = 8 of 10; 2009 = 6 of 8; 2008 = 7 of 8; 2007 = 7 of 8). Finding sources of funding other than the USRA program would be beneficial to keep the program successful and appealing to faculty supervisors, however, several supervisors have been committed to participating in ICE over the years despite hindrances to securing USRAs for their ICE students. These hindrances arise either from high competition from local students or their institutional ranking methods putting outside students at a disadvantage. **Potential ICE supervisors should consult their local USRA committees for information on their policies and selection practices before committing to joining the ICE program.****

The table below provides some statistics for the ICE program from 2004 through to this year.

**Interested in joining ICE?** An E-mail will be circulated in early August through the DIC mailing list to solicit participants for ICE 2014. The list of supervisors will be finalized in early September so that student recruitment can begin shortly thereafter. Please contact Chris Kozak or Andrew Grosvenor for details of the time and money involved, and be aware that there is a time commitment during the first 6-8 weeks of the fall semester.

## INORGANIC CHEMISTRY EXCHANGE



Year/Student	from	worked with	At	USRA	whereabouts (last update)	
<b>ICE 2004</b>	1	Ottawa	Lisa Rosenberg	UVic	Y	NSERC CGS/grad student/Deryn Fogg/Ottawa (08)
<b>ICE 2005</b>	2	Ottawa	Hilary Jenkins	SMU	Y	medical school? (07)
	3	Dal	Scott Kroeker	Manitoba	Y	working in AB, plans vet school (08)
	4	Ottawa	Lisa Rosenberg	UVic	Y	NSERC CGS/grad student/Dennis Hore (physical)/UVic (08)
	5	UVic	John Corrigan	UWO	Y	grad school/Warren Piers/Calgary
	6	UWO	Steve Westcott	Mt.A	N	see ICE 2006
	7	Manitoba	Deryn Fogg	Ottawa	N	NSERC PGS/grad student/Mark Stradiotto/ Dal (08)
	8	Ottawa	Neil Burford	Dal	Y	NSERC PGS, MSc/Fryzuk/UBC, PhD/Stephan/UofT
<b>ICE 2006</b>	9	Dal	Robin Hicks	UVic	Y	NSERC PGS/working NRC Halifax/plans year of work
	10	UBC	John Corrigan	UWO	N	
	11	SMU	Scott Kroeker	Manitoba	Y	NSERC PGS/Cathy Crudden/Queen's (08) now at GreenCentre
	6	UWO	Laurel Schafer	UBC	Y	grad student/John Corrigan/UWO (08)
	12	UVic	Neil Burford	Dal	Y	grad student/John Arnold/UCBerkeley-withdrawn (08)
	13	UBC	Paul Ragogna	UWO	N	Sept 2012 Grad School in Polym Engin.
	14	UBC	Bernie Kraatz	Saskatchewan	N	3 <sup>rd</sup> world development, med school? (07)
<b>ICE 2007</b>	15	MUN	Deryn Fogg	Ottawa	Y	NSERC CGS/grad student/Mark McLachlan/UBC (08)
	16	MUN	Lisa Rosenberg	UVic	Y	grad student/?(analytical)/Toronto (08)
	17	MUN	Cathy Crudden	Queen's	Y	NSERC PGS/Grad student/Deryn Fogg/Ottawa (10)
	18	Ottawa	Laurel Schafer	UBC	Y	NSERC PGS/grad student/Laurel Schafer/UBC (08)
	19	Queen's	Chris Kozak	MUN	Y	Repeated ICE in 2008, now at USC Engineering
	20	Saskatchewan	Steve Westcott	MtA	N	Grad School at Alberta with Veinot
	21	UVic	George Shimizu	Calgary	Y	withdrew from ICE (07)
	22	UBC	Kraatz/Scott	Saskatchewan	Y	Med School at UBC
<b>ICE 2008</b>	23	UVic	Fran Kerton	MUN	Y	Grad school (PGSM) at Uvic with Steurman (Phys. Chem.)
	24	MUN	Rob Scott	Saskatchewan	Y	NSERC PGS/grad student/P. Jessop/Queen's (09)
	25	MUN	Nathan Jones	UWO	Y	Medical School at MUN
	19	Queen's	Roland Roesler	Calgary	Y	Grad School U Southern California (Engineering; PGSM 10)
	26	Queen's	Deryn Fogg	Ottawa	Y	Grad school Fall 2010 Toronto with Geoff Ozin
	27	Saskatchewan	John Corrigan	UWO	N	Grad student/Toronto/Bob Morris (2009)

	28	UWO	Cathy Crudden	Queen's	Y	Dental school
<b>ICE 2009</b>	29	Queen's	Lisa Rosenberg	UVic	Y	Grad School UWO (Engineering)
	30	Western	Derek Gates	UBC	Y	Professional school?
	31	UBC	Cathy Crudden	Queen's	Y	
	32	Queen's	Tom Baker	Ottawa	Y	
	33	MUN	Tom Baker	Ottawa	Y	Med School (Since Sept 2011).
	34	Queen's	Jens Mueller	Saskatoon	N	
	35	Dalhousie	Roland Roesler	Calgary	Y	Comp'g BSc, interested in Med., Grad School in Chem as backup
	36	UBC	Chris Kozak	MUN	Y	M.Sc. at U. Washington, currently PhD at UBC
	37	Ottawa	Scott Kroeker	Manitoba	N	Grad School at UOttawa with Fogg
<b>ICE 2010</b>	38	Saskatchewan	Martin Stillman	Western	Y	Graduate Student at U of T (Since Sept. 2011)
	39	Western	Tom Baker	Ottawa	Y	Medical School
	40	Manitoba	Tom Baker	Ottawa	N	Law School U of T. (Environmental)
	41	MUN	Scott Kroeker	Manitoba	N	MSc in physiology at MUN. Still interested in med school.
	42	Ottawa	George Shimizu	Calgary	Y	Grad school at UToronto with Datong Song
	43	UBC	George Shimizu	Calgary	Y	Grad school at UCalgary with Shimizu (NSERC CGS-M)
	44	Western	Suning Wang	Queen's	Y	Account manager at GE
	45	Western	Mike Wolf	UBC	Y	Grad at Illinois-Urbana Champaign working with Ralph Nuzzo
	46	Dalhousie	Robin Hicks	UVic	Y	Education program at StF
	47	MUN	Andrew Grosvenor	Saskatchewan	Y	Pharmacy Graduate Program Alberta, Paper with A. Grosvenor group.
<b>ICE 2011</b>	48	Western	Fran Kerton	Memorial	Y	Grad school at Western with Joe Gilroy
	49	Memorial	Garry Hanan	Montreal	Y	MSc (PGS-M) at Saskatchewan with Tim Kelly
	50	Manitoba	Derrin Richeson	Ottawa	N	Interested in Med School
	51	UBC	Suning Wang	Queen's	Y	Graduate School (location unknown, but likely in USA)
	52	Memorial	Mike Baird	Queen's	Y	Grad School at MUN
	53	Calgary	Martin Stillman	Western	Y	Grad School U. Toronto with Sefaros
	54	UBC	Peter Budzelaar	Manitoba	N	Grad Student at Scripps
	55	Calgary	Andrew Grosvenor	Saskatchewan	Y	Started grad school at Calgary with PGS, but withdrew
	56	Saskatchewan	Curtis Berlinguette	Calgary	N	Working at Nova Chemicals (Inorganic Chemistry)
	57	Western	George Shimizu	Calgary	Y	UAlberta for grad school (NSERC CGS-M) with Eric Rivard
	58	Cape Breton	Mike Wolf	UBC	Y	M. App. Sci. at Dal, in Biomedical, Chemical, or Materials Engineering
	59	Western	Robin Hicks	Victoria	Y	Completing BSc at UWO

	60	Montreal	Lisa Rosenberg	Victoria	Y	MSc candidate at U de M (Wuest) in fall 2012
<b>ICE 2012</b>	61	Toronto	Zysman-Colman	Sherbrooke	Y	
	62	UBC	Butler	McGill	N	Completing BSc at UBC
	63	UBC	Ragona	Western	Y	Graduate Student at U of Toronto
	64	Victoria	Stillman	Western	Y	Completing Chem Major, Grad School likely
	65	Memorial	Rawson	Windsor	N	Completed BSc, entering Engineering program at MUN in fall 2013.
	66	UBC	Budzelaar	Manitoba	N	
	67	Memorial	Berlinguette	Calgary	Y	
	68	Victoria	Baumgartner	Calgary	N	Completing BSc at Uvic,
	69	Windsor	Wolf	UBC	Y	Completing BSc, looking at grad schools, possibly inorganic
	70	Calgary	Hicks	Victoria	N	AGAT labs
	71	Toronto	Rosenberg	Victoria	Y	
<b>ICE 2013</b>	72	Toronto	Mehrkhodavandi	UBC	Y	
	73	Ottawa	Butler	McGill	Y	
	74	Victoria	Kelly	Saskatchewan	Y	
	75	UPEI	Koivisto	Ryerson	Y	
	76	Ryerson	Stillman	Western	Y	
	77	Saskatchewan	Rawson	Windsor	N	
	78	UBC	Shimizu	Calgary	Y	
	79	Toronto	Kroeker	Manitoba	Y	
<b>ICE 2014</b>	80	McGill	Rawson	Windsor	N	
	81	McGill	Schafer	UBC	Y	
	82	Memorial	Rivard	Alberta	Y	
	83	Laval	Kozak	Memorial	Y	
	84	Queen's	Koivisto	Ryerson	N	
	85	Windsor	Butler	McGill	N	
	86	Alberta	Hanan	Montreal	Y	
	87	Victoria	Kelly	Saskatchewan	Y	
	88	Queen's	Bieringer	Manitoba	N	
	89	Victoria	Ottenwaelder	Concordia	Y	
	90	Windsor	Baird	Queen's	Y	
	91	Saskatchewan	Stillman	Western	Y	



**Those who went on to grad school in chemistry marked in red.  
Students 6 and 19 did ICE twice, so there were in fact 93 exchanges**