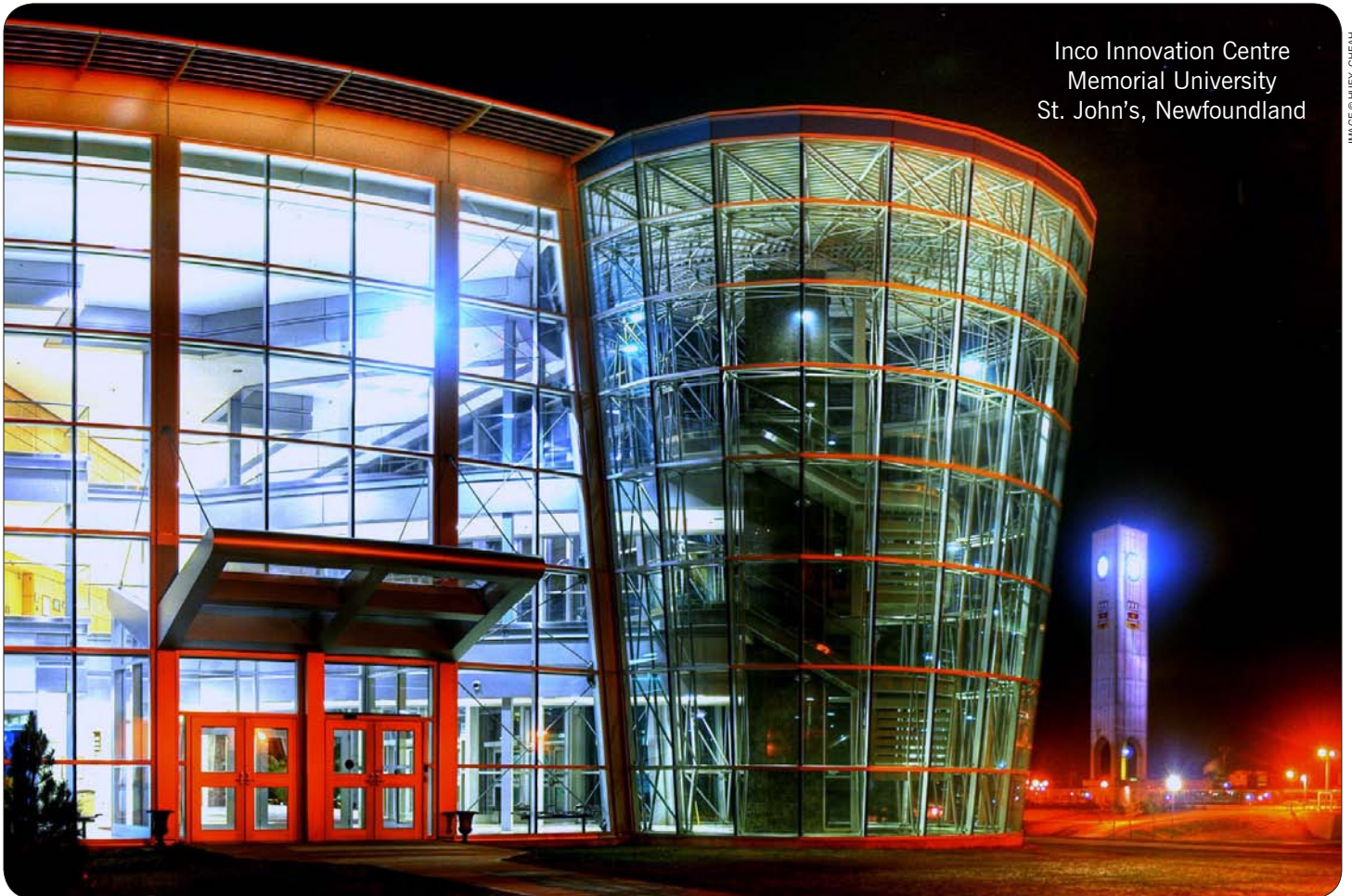




SSC LIAISON

Volume 21 Number 1 February 2007



Inco Innovation Centre
Memorial University
St. John's, Newfoundland

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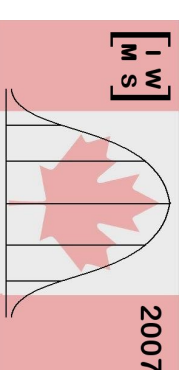
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THE NEWSLETTER OF THE STATISTICAL SOCIETY OF CANADA

ISSN 1489-5927

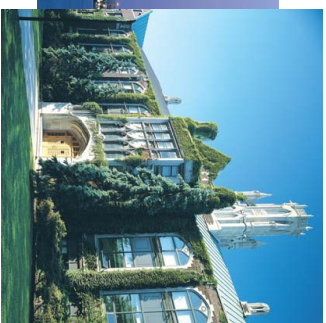
The 16th International Workshop on Matrices and Statistics

WINDSOR, ONTARIO, CANADA
 JUNE 1 –3, 2007



International Organizing Committee:

George P. H. Styan — Chair (McGill)
 Simo Puntanen — Vice-chair (Finland)
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After May 1, 2007

Faculty: \$350
 Students/Retirees: \$200

Banquet: \$50
 Day trip: \$150
 Spouse/Guest Trip \$100

(Please see the website for more
 information about the workshop
 venue, registration information)

The purpose of this Workshop is to stimulate research, in an informal setting, and to foster the interaction of researchers in the interface between matrix theory and statistics. The Workshop will include both invited and contributed talks, and a special session with talks and posters by graduate students is planned. A special issue of the journal *Linear Algebra and its Applications* will be published devoted to selected papers presented at the conference.

This workshop is a satellite meeting of the 35th Annual Meeting of the Statistical Society of Canada, St. John's, Newfoundland, June 10-13, 2007.

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 Wai Ling Yee
 Christine Young
 (Workshop Administrator)

FOR MORE INFORMATION, PLEASE VISIT OUR WEBSITE <http://www.uwindsor.ca/iwms> EMAIL: iwms@uwindsor.ca

Message from the President

Charmaine Dean

Spring is an important time in the Academic year. Many of our graduate students throughout Canada are facing decisions about their future careers as they cross the country interviewing at a variety of institutions. I hope our young colleagues are also getting an impression of the tremendous scope of expertise in statistics in Canada, of the unity of our profession and of the close knit and collegial group of statisticians in Canada.

There are two new ad hoc committees at work in our society. The first is an ad hoc committee of young investigators led by Peter Song and with committee members Tulay Koru-Sengul, Matias Salibian-Barrera, Laura Cowen and Yulia Gel. This committee is considering how the SSC may better serve new investigators and how new investigators may become energized in their involvement in SSC activities. The committee plans to host brainstorming meetings in Waterloo, Vancouver and Montreal by bringing together young investigators in these locations for an afternoon of discussions. At these events, there will also be talks on a variety of matters of particular interest to young investigators, for example, an information session on the publishing process by editors of key journals. Members who are interested in providing suggestions to this committee or in learning about planned events are encouraged to contact Peter Song (song@math.uwaterloo.ca).

The second ad hoc committee constructed this year is one on SSC priorities, under the leadership of Nancy Heckman. The members of this committee are François Bellavance, David Brillinger, Paul Gustafson, David Hamilton, Mary Lesperance, Jim Ramsay, and Frances van den Enden. The committee is charged with the task of considering whether the SSC meets its mandate and is of great service to the statistical community in Canada and whether there are new avenues that should be explored with regard to our meetings, our publications and our sections. This important committee will help to set direction for the society and I encourage you to send



Charmaine Dean

comments to Nancy Heckman (nancy@stat.ubc.ca) for their consideration.

In addition, the Awards Committee is under major reconstruction this year to accommodate several new award sub-committees. At the October 2006 Board meeting, the establishment of three new awards was approved in principle. Thanks to the outstanding work of John Petkau, and his committee members Angelo Canty and François Pageau, these awards were proposed after much deliberation on the ad hoc committee on New SSC Awards. The awards themselves are superb and will offer the statistics profession excellent distinction. New sub committees of the Awards Committee are busy at work ironing out details for the new awards so they may be in place for 2007-2008. Brief descriptions of these three new awards follow.

Award for Impact of Applied and Collaborative Work: To recognize outstanding contributions by SSC members in collaborative research and applied work, the importance of which derives primarily from its relatively recent impact on a subject area outside of the statistical sciences, on an area of application, or on an organization.

Awards for Student Research Presentations: To encourage active student participation at the SSC Annual Meeting by recognizing excellent presentations,

whether oral or poster presentations, by pre-doctoral and doctoral students.

Awards for Case Studies in Data Analysis at Annual Meeting: To raise the profile of data analysis and collaboration with other disciplines as significant contributions of statistical scientists, to encourage students to participate in these activities, and to recognize excellence among the student teams participating in the Case Studies in Data Analysis event at the SSC Annual Meeting.

Details on these awards including terms of reference and nomination procedures are expected to be posted on the SSC website and through our mailing lists in the Fall. I would like to take this opportunity to thank Doug Wiens for exceptional leadership in his role as Editor of the Canadian Journal of Statistics for the past three years. The journal has grown substantially in many ways through his direction and Doug and his editorial team have been very effective in streamlining operations to remove the backlog and reduce the response time considerably. We are also very fortunate to have had the leadership of Yogendra Chaubey in his role as Editor of *Liaison* for the past three years. He performed great service to our society with tremendous energy and enthusiasm. We look forward to working with our new editors Paul Gustafson (CJS) and Frances van den Enden (*Liaison*) over the coming years.

Our organizers John Braun and Brajendra Sutradhar are hard at work to produce a superb annual meeting in Newfoundland. This issue and our SSC website provide a lot of information about the meeting -- take a look to see the interesting state-of-the-art scientific tools and methods to be discussed and also for information on the special events and tours on Newfoundland culture and traditions which the local organizers have so kindly arranged to enrich our experience at the meeting. Share this issue of *Liaison* with your graduate students, and I also hope you encourage them to attend this meeting on our eastern shores.

MESSAGES

Message from the Editor

Frances van den Enden
RCMP

Hello All and Happy New Year.

I would like to extend my greetings as the new editor of *Liaison*. I am just starting to realize the size of the job that I have taken on and I would like to thank the outgoing Editor, Yogendra Chaubey for his support.

The year ahead looks like it will be an interesting one based on the programme and workshops for the upcoming SSC meeting being held at Memorial University. Thanks to program chair John Braun and local chair Brajendra Sutradhar for putting together this impressive gathering of speakers and events.

Also noteworthy is the number of individuals awarded P. Stat and A. Stat accreditation this year. Congratulations to all.



Frances van den Enden

Finally, I would like to thank all the contributors to this issue and I invite the members to contribute news, reports and articles of interest to the statistical community, and to share any suggestions for improvement.

REPORTS

New P.Stat. and A.Stat. of the SSC

It is with great pleasure that the Board of the Statistical Society of Canada (SSC) awarded the P.Stat. or A.Stat. designation

to the following individuals (pictures and autobiographical sketches supplied by candidates):

P.Stat. 083: Murari Singh

Presently at the International Center for Agricultural Research in the Dry Areas, Aleppo, Syria, I assist agro-biological scientists in the planning, design, analysis and interpretation of field trials and surveys; provide support in the areas of statistical analysis of molecular marker data and bio-informatics; teach courses in statistical applications and associated computing to scientists from the mandated countries of the Center; develop

statistical methods to fill gaps in methodology applicable to our Center's requirement in the areas including: the Design of experiments and surveys, and modelling of data; Biometrical Genetics, GxE interaction, molecular marker data analysis, plant bio-diversity analysis, microarrays data analysis; Spatial analysis of field experiments; and Statistical methods in long-term trials and longitudinal data analysis.



Murari Singh

SSC LIAISON

VOLUME 21, NO. 1 FEBRUARY 2007

EDITOR

Yogendra P. Chaubey
chaubey@alcor.concordia.ca

MANAGING EDITOR

Fassil Nebebe
fnebebe@vax2.concordia.ca

SENIOR ASSOCIATE EDITORS

Llwellyn Armstrong
l_armstrong@ducks.ca

Christian Genest
genest@mat.ulaval.ca

Peter D. M. Macdonald
pdmac@mcmaster.ca

J. Heward Gough
hew.gough@statcan.ca

T. Rolf Turner
rolf@math.unb.ca

ASSOCIATE EDITORS

Jean-François Angers
jean-francois.angers@umontreal.ca

François Bellavance
francois.bellavance@hec.ca

K. C. Carrière
kc.carriere@ualberta.ca

Thierry Duchesne
thierry.duchesne@mat.ulaval.ca

David Hamilton
Hamilton@mathstat.dal.ca

Janet McDougall
jmcDougall@mcd-sci.on.ca

Eric Rancourt
eric.rancourt@statcan.ca

Gary Sneddon
sneddon@math.mun.ca

Min Tsao
tsao@math.uvic.ca

PRODUCTION AND DISTRIBUTION

George P. H. Styan

LAYOUT AND GRAPHICS DESIGN

Torsten Bernhardt

FRENCH TRANSLATION

Maryse Dansereau

SSC LIAISON

STATISTICAL SOCIETY OF CANADA

TEL. : (613) 562-5320

FAX : (613) 565-6774

E-MAIL : ADMIN@SSC.CA

WEB SITE : WWW.SSC.CA

SSC Liaison is published by the Statistical Society of Canada (SSC) and is sent free of charge to all members four times a year (February, May, July, and October). Non-members can subscribe to *SSC Liaison* at the cost of \$30.00 per volume (four issues). *SSC Liaison* is also available on the SSC web site at www.ssc.ca.

The aim of *SSC Liaison* is to foster increased and better communication among Canadian statisticians.

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Circulation : 800
ISSN: 1489-5927
Legal Deposit - 4th quarter 1986

Information for Authors

The Editors of **SSC Liaison** invite all members of the statistical community to submit news, comments (in the form of Letters to the Editor) and articles of general interest to the profession. Items other than Letters to the Editor, may be submitted to the Editor or any Associate Editor. Letters to the Editor should be submitted only to the Editor.

The maximum number of words, in the original language, is: Mailbox: 375; Short article: 750; Feature article: 1750.

The Editors reserve the right not to publish any letter submitted or to publish an edited version.

SSC E-Directory

PRESIDENT:
PRESIDENT@SSC.CA

PRESIDENT-ELECT:
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PAST-PRESIDENT:
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TREASURER:
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PUBLIC RELATIONS OFFICER:
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SECRETARY:
SECRETARY@SSC.CA

**2007 ANNUAL MEETING
LOCAL ARRANGEMENTS CHAIR:**
LOCAL2007@SSC.CA

**2007 ANNUAL MEETING
PROGRAM CHAIR:**
PROG2007@SSC.CA

CJS EDITOR:
CJS@SSC.CA

LIAISON EDITOR:
LIAISON@SSC.CA

WEBMASTER:
WEBMASTER@SSC.CA

PERMANENT OFFICE:
ADMIN@SSC.CA

GENERAL INFORMATION:
INFO@SSC.CA

P.Stat. 084: Paul J. Villeneuve

My academic training has been in the area of statistics and epidemiology. Currently, I am a research scientist within Health Canada, and my research focuses on the human health effects associated with air pollution. I have provided consulting services in biostatistics to private industry, government and hospital-based researchers over the past ten years. I also hold an adjunct faculty position in the Department of Public Health Sciences at the University of Toronto. My areas of interest include survey design and sampling, environmental epidemiology, cancer epidemiology, and biostatistics.



Paul J. Villeneuve

(no photo available)

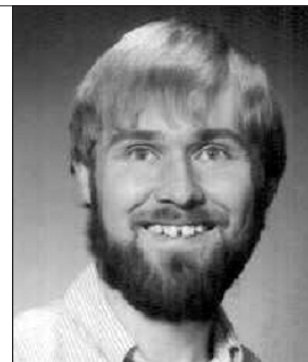
Selahadin A. Ibrahim

P.Stat. 085: Selahadin A. Ibrahim

I have been working as a statistician for the past 10 years at the Institute for Work and Health. During this time I have used different statistical methods including exploratory and confirmatory factor analysis, path analysis, structural equation modeling, multilevel modeling, latent curve analysis, growth mixture modeling, cluster analyses, and categorical data analyses. My responsibilities included consulting researchers on the best methods to answer their research questions, doing statistical analyses and writing the methods, interpreting and presenting the results. I have also been working with large data sets collected by Statistics Canada. These data sets use weights to account for the different probability of selections, and need special methods to account for the non-independence of observations. I have been a statistician on two masters committees in epidemiology.

P.Stat. 086: Hugh A. Chipman

Hugh Chipman is a Professor and Canada Research Chair in Mathematical Modelling in Acadia University's Department of Mathematics and Statistics. He received his B.Sc. in Mathematics and Statistics from Acadia University and his M.Math and Ph.D. in Statistics from the University of Waterloo. He is active in the development and application of novel, computationally intensive statistical modeling methods in areas such as quality improvement, drug discovery, bioinformatics, marketing, and security.



Hugh A. Chipman



Stephen J. Smith

P.Stat. 087: Stephen J. Smith

I have been employed by the Department of Fisheries and Oceans for 27 years and am currently a Research Scientist with the Population Ecology Division at the Bedford Institute of Oceanography. I have worked in the subject areas of sample survey theory, bootstrap methods, randomization tests, generalized linear models, random effects models and lately have been applying Bayesian methods to population dynamic models. I have published 40 papers in peer-review journals including Biometrics and JASA, in

addition to authoring or co-authoring 83 research reports, technical reports, proceedings, essays and book reports. In addition to my research work I have held supervisory and research manager positions. I have been an editor for two scientific journals and am regularly asked to review research programs in the United States by the U.S. National Academy of Science and the Centre for Independent Experts at the University of Miami.

P.Stat. 088: Thierry Duchesne

After my Ph.D., I joined the Department of Statistics at the University of Toronto as professor and since 2003, I am professor in the Department of Mathematics and Statistics at Laval University. My research interests are mainly the analysis of survival data and regression models for the analysis of longitudinal data, together with the application of these techniques to problems arising in biostatistics (medicine and ecol-

ogy), engineering (reliability and warranties) and in actuarial sciences (modelling of claims amounts). Because of my interest in biostatistics I have been assistant professor at the Department of Public Health Sciences in Toronto from 2000 to 2002 and I am associate researcher at the Research Unit on Population Health of the Hospital affiliated to Laval University since 2003.



Thierry Duchesne



Christian Genest

P.Stat. 089: Christian Genest

Christian Genest is professor in the Department of Mathematics and Statistics at Laval University. He studied mathematics and statistics at University of Québec at Chicoutimi (B.Sp.Sc., 1977), at University of Montréal (M.Sc., 1978) and at University of British Columbia (Ph.D., 1983). He was postdoctoral fellow at Carnegie-Mellon University (1983-4) and at University of Waterloo (1984-7) before

establishing himself in Quebec City. His research interests are presently multivariate analysis and nonparametric statistics, together with their applications in actuarial science, finance and hydrology. He also contributed to the development of multicriteria techniques and group decisions. He served the community in many roles, being responsible in management or as editor.

P.Stat. 090: John J. Koval

I graduated in 1986 with a PhD in Statistics from the Department of Statistical and Actuarial Sciences at the University of Western Ontario, after having studied in England and Canada. I am currently a Professor of Biostatistics in the Department of Epidemiology and Biostatistics

at the University of Western Ontario. I do research into regression, particularly logistic regression, models in epidemiology, and currently have a grant from the National Cancer Institute of Canada to investigate why adolescents and young adults start and later quit smoking.

(no photo available)

John J. Koval



Xiaoqiang Li

P.Stat. 091: Xiaoqiang Li

I have been practicing as a statistician for over 10 years. After graduation with a bachelor's degree in Medicine from the Tongji Medical University, I started my statistical career as a biostatistician at China-Japan Friendship Hospital where I provided consultation services to many medical doctors and researchers. During that time, I was also involved in the design and analyses of clinical trials and taught a biostatistics course that was designed to introduce basic statistical knowledge to medical doctors. My skills and knowledge in statistics were further developed since I started working for STATLAB during my Ph.D. study in statistics at the University of Western Ontario (UWO). During the time at UWO, I served as a statistical

consultant for many faculty members and graduate students from other departments and scientists from external institutions. I also successfully offered workshops for researchers and students who need BSAS skills development. Now, I lead a group of statisticians who design research studies, conduct research and surveys, estimate the impact of policy initiatives, and provide strategies for nursing health human resources planning in the Nursing Health Services Research Unit at the University of Toronto. I am also a co-investigator for a number of national and international studies. My participation has resulted in many publications, reports, presentations and fact sheets within the nursing community.

A.Stat. 002: Rajendra Pratap Singh

Since 1991, gained over 15 years of experience in Applied Statistics with application to health, agriculture, fishery and pharmaceutical data. I am able to write statistical design for data collection, make statistical hypotheses/contrasts as per project objectives, plan for data analysis, analyse/interpret data, perform data management activities (database design, data entry, data validation & data extraction), prepare statistical reports for the project. Gained knowledge on biostatistics, biopharmaceutical statistics, epidemiology and bioinformatics. Analyzed categorical data, survival data, Bayesian data, etc. and used linear models, mixed models, etc. for analysis, using software: SAS, SPSS & Epi-Info & MS-Office. Participated in workshops, seminars & conferences

on statistical models & methods. Written manuscripts on HIV/AIDS: Statistical Models & Methods. Documented research work in reputed journals. During the past 4 years involved in various course/training programs in Toronto. I am a life member of the Indian Society for Medical Statistics. For ethical practice, I understand the regulations (TPD/FDA/European) and guidelines (ICH-GCP/GLP/GMP) in pharmaceutical industries. I am currently interested in statistical consulting or contract work such as: writing statistical design & analysis plan, data management activities (database design, data entry, data validation, storage/lock-up, data extraction), data analysis & interpretation and statistical report/ documentation.



Rajendra Pratap Singh



Noemi Toiber Temin

A.Stat. 003: Noemi Toiber Temin

I completed the requirements for my graduate degree (MA) in Statistics in 2004 from York University. I have been a member of the SSC since 2003. The membership allowed me to get a better idea of the structure of the Statistical community in Canada as well as of the opportunities and challenges facing new statisticians entering the work force. Currently, I am working as a Statistician in a

Contract Research Organization in Toronto. My main responsibilities include the management of large amounts of clinical data, their statistical analysis and presentation. My working interests are clinical trial design, analysis and the standardization of clinical data to help streamline the drug development process.

REPORTS

A.Stat. 004: Maja Grubisic

Two years ago I completed my Bachelor of Science Degree with the major in statistics and thematic concentration in economics at the University of British Columbia. Following that I have enrolled the Master of Science program at Acadia University, and have successfully defended my thesis in May this year. During my undergraduate career I had an opportunity to work as a student research assistant. At this time I have developed an interest in biostatistics. I pursued this interest as a research assistant at London Health Sciences Center, which was my workplace

during the internship component of my Master's program. This summer I am working again as a research assistant at London Health Sciences Center. After completing this project I plan to look for a biostatistics position at which I could continue to learn and develop my statistical skills. I am a member of Statistical Society of Canada as of 2004. At the Saskatoon SSC conference in 2005 I have presented with my team a case study called "Antidepressant Medication and Stability in Seniors Case Study".

(no photo available)

Maja Grubisic



*Heather R. Thiessen
Philbrook*

A.Stat. 005: Heather R. Thiessen Philbrook

I completed my Master of Mathematics in Statistics - Biostatistics at the University of Waterloo in 2004. Since then, I have worked as a Biostatistician at the Kidney Clinical Research Unit in London, Ontario.

A.Stat. 006: Sophie Baillargeon

Sophie Baillargeon obtained a bachelor's and a master's degree in statistics from Laval University. Her master's thesis was devoted to spatial statistics, more specifically kriging applied to precipitation data interpolation. She was then employed as a consultant at the statistical consultation service of Laval University. She is presently a researcher for

the Canada Research Chair in statistical sampling and data analysis at Laval University. For this job, she collaborated in research projects involving capture-recapture models. She also specialised in R programming. Sophie Baillargeon is a member of the Association des Statisticiennes et Statisticiens du Québec (ASSQ).



Sophie Baillargeon



Marni A. Freeman

A.Stat. 007: Marni A. Freeman

In 2003, I completed my Master of Science degree in biostatistics at the University of Toronto. Previously, I graduated with an Honours Bachelor of Science degree in statistics, where I was awarded the Northern Life Assurance gold medal and received an Ontario Graduate Scholarship for high academic performance. I am currently working as a biostatistician at GlaxoSmithKline, Canada. My primary responsibilities include designing, analyzing and reporting clinical trials and providing statistical consultations.

A.Stat.008: Beatrice, D. Chapman

I completed my B.Math from the University of Waterloo in 2004. Since then, I have been working as a survey methodologist at Statistics Canada. I have worked on a number of surveys with my focus primarily being sampling for the National Longitudinal Survey of Children and Youth.



Beatrice D. Chapman

SSC 2007

June 10 – 13, 2007
Memorial University
St. John's, Newfoundland

Conference Venue

The meeting will take place in the Inco Innovation Centre (IIC), which is an impressive-looking glass and steel edifice, located in the centre of the campus of Memorial University of Newfoundland (MUN). This IIC facility is surrounded by the Arts and Administration, Science and the Queen Elizabeth II Library buildings. The on-site registration and some larger scientific sessions will take place in the IIC and the remaining scientific sessions will take place in the Arts and Administration Annex (AAA) and the Science building.

Local Arrangements

About the City of St John's

St John's is the capital of Newfoundland and Labrador. The metropolitan area has a population of about 175,000. It is the most easterly port and the oldest city in North America. But do not let its age fool you; it is the site of many world-class facilities including an international centre in marine science and technology. A mosaic of fishing villages, cultural festivals and wildlife tours bring variety to the city. The rich history and culture and the affinity for a "small town" quality of life add to the pleasure of life, work and play in the

city. St. John's boasts sports clubs and recreation facilities as well as the only public fluvarium in North America. Take a break, go whale and iceberg watching, browse the shops on Water Street, visit the Newfoundland Museum, watch the sunrise on Cape Spear...the most easterly point in all of North America. The options are endless!

June Weather in St. John's

The weather in St. John's at this time of year is very variable. The days are moderately warm with temperatures ranging from 10 to 19 degrees celsius. The nights are rather cool. A pullover and a raincoat may well be useful at times.

Dining in St. John's

There are many fine places to eat around town. Many of these establishments have been listed on the City's official web site, and also can be found at www.ssc.ca.

Special Events

Event 1

Enjoy the Newfoundland Soiree on Monday evening, June 11. For reservations, complete the appropriate section in the conference registration form available at www.ssc.ca.

Event 2

The following events have been arranged with Scademia Adventure Tours, at conference rates. For reservations, contact them directly by phone at (709) 726-5000 or, toll free, at 1-800-77-WHALE. or, on the web, at www.netfx.ca/scademia. There is a \$5 early bird discount for any tour that you book by May 15, 2007. The deadline for conference rate booking is June 5, 2007.

Land and Sea Tour

On our land and sea tour, guests will experience the history of St. John's by land and the natural beauty of Newfoundland by sea. Our guide will pick up guests at 9 am and embark on a tour of historic St. John's, Cape Spear and Signal hill until 11 30 am. Guests will then be taken to beautiful Petty Harbour for a picnic that we will provide on the harbour promenade. Then at 1 pm we're off to see humpback whales, puffins, and a variety of seabirds aboard our 90 ft Grand Bank schooner, Scademia. Guests can enjoy alcoholic or non-alcoholic beverages as well as snacks aboard our guided tour as they sail to Cape Spear along Newfoundland's magnificent coast line.

Conference rate: \$75 (Minimum of 20 people); Children 12 and under \$60
 Regular Rate: \$85

City Tour

Our city tour is a great way for guests to learn about the rich history of St. John's without having to find their own way through the twisting streets of St. John's. We will pick up guests at 9 am at their hotel and take them on a guided tour of historic St. John's, Signal Hill and Cape Spear. Our knowledgeable guide is more than happy to answer questions and make guests feel right at home on the rock. This tour is a must for anyone visiting our city.

Conference Rate: \$35; Children 12 and under \$25

Regular Rate: \$50

Boat Tour

The Scademia has hosted tens of thousands of passengers and has become the flagship for St. John's. A sea tour aboard our Grand Bank schooner, the last of its kind in Newfoundland, is truly a unique experience for all guests. Our experienced crew will guide Scademia towards whales, which are usually seen within 10 minutes of sailing from Petty Harbour, as well as dolphins, Gannetts and Puffins. Our boat is equipped with a full bar and guides who will entertain and educate passengers.

Conference Rate: \$35 (Shuttle included); Children 12 and under \$20

Regular Rate: \$50

Dinner Cruise

Enjoy a two-hour boat tour on our authentic schooner at 4PM in Petty Harbour. After the boat tour we will have prepared a sit-down dinner with drinks and entertainment. A shuttle service will then be available after dinner to take you back to your hotel.

Conference Rate: \$65 (Shuttle and Dinner Included); Children 12 and under \$50

Regular Rate \$80

Accommodations

Block booking for accommodations at conference rates has been made at two hotels, one motel, and the University residence. Information and rates are listed below. When booking, refer to SSC2007

and book by May 9, 2007, to enjoy the special rates.

Holiday Inn

Holiday Inn St. John's, on Portugal Cove Road, would like to welcome all SSC 2007 delegates planning a trip to St. John's, Newfoundland. The hotel is very conveniently located just minutes from the St. John's International Airport, Memorial University, the Trans Canada Highway, downtown and the Stavanger Drive shopping area.

Rate: \$129.95 per night. For reservations, call 1-800-933-0506 or 709-722-0506. You can also reach Patricia Martin, Reservations Manager, at pmartin@fortisproperties.com.

Ramada

Ramada St. John's at 102 Kenmount Road has recently undergone a multi-million dollar renovation. The Ramada is located at Kenmount Road, within walking distance to malls and many restaurants and just minutes to business parks, Memorial University and the hospital. Downtown is only 7 minutes by taxi (\$10). Location, convenience and service make the new Ramada St. John's an ideal place for business or leisure travelers.

Rate: \$125 per night. For reservations, call 1-866-612-5800 or 709-722-9330.

Super 8

Super 8 Motel - St. John's is located on Higgins Line. Motel Features: Complimentary Super Start Plus Breakfast – featuring muffins, bagels, toast, hot and cold cereals, fresh fruit, coffee, tea, hot chocolate and juices; complimentary High Speed Internet in all guest rooms and wireless coverage in public areas; complimentary Guest Workstation in Lobby including computer and printer; complimentary local calls.

Rate: \$99 per night. For reservations, call 1-866-798-7666 or 709-722-0506

Memorial University Residence Halls

Register upon arrival at Hatcher House. Rooms: A single room contains one twin

bed. A double room contains two twin beds. All rooms have a desk, chair and a closet with drawers. Bedding is provided. The conference rate includes daily maid service, towels and face cloth, soap and a drinking glass. There is no telephone or TV available.

Payment: You are required to make full payment for your accommodations prior to or upon arrival. We accept cash, cheques, debit card, Visa and MasterCard. Payment must be in Canadian funds only!

Summer Food Services (2006 rates; tax included): available Monday to Friday. Meals are served in the Hatcher House Dining Hall (unless otherwise posted). Breakfast: 7:30 am – 9:00 am (Continental) \$6.83; Lunch: 12:00 pm – 1:30 pm (Buffet Style) \$11.24; Dinner: 4:45 pm – 6:15 pm (Buffet Style) \$12.13.

How to contact us: Registration booth - May 1 to late August. Tel: (709) 737-7933; Fax: (709) 737-6705, E-mail: conferences@mun.ca.

Rate: Single Room-\$41.00 per night; Twin-Bedded Room-\$66.00 (\$33.00 per person). For reservation, complete the request for accommodations: Paton College form available at www.ssc.ca.

Registration

Registration forms will be available at www.ssc.ca in the last week of January 2007.

SSC 2007 Workshops (Gustafson/G. Chen/Kovacevic)

The Biostatistics Section is pleased to announce that Simon Wood (University of Bath, UK) will be leading a one-day workshop on generalized additive models at the 2007 Annual Meeting in St. John's, Newfoundland. Professor Wood has long-standing interests in this area, and is the author of a recent book on the topic. In addition to his general methodological interests, Professor Wood also focusses on applications of statistical modelling to ecological problems. A description of the workshop is as follows.

Monday, June 11
(afternoon)

Generalized Additive Models (GAMs) are generalized linear models in which the relationship between a response variable and multiple predictors is described partly by a sum of smooth functions of the predictors. GAMs offer an attractive balance between flexibility and structure and since their introduction by Hastie and Tibshirani in 1986, they have been widely applied across biostatistics and beyond (for example in ecology, epidemiology and finance). Recently the GAM framework has been strengthened by the advent of reliable methods for selecting the degree of smoothness for the model components, by the development of efficient ways of representing smooth functions of several predictors, and by the integration of GAMs and mixed models. This course will cover model building and checking for GAMs within this modern framework, as well as inference with well fitting models. The focus will be practical (using the MGCV package in R) and aimed at a general statistical audience, but with examples drawn from biostatistics and ecology. Underlying theory will be presented to support the practical material (e.g., on penalized regression, the Bayesian approach to inference and smoothness selection methods. The emphasis will be on providing a conceptual overview of this material, rather than on technical details.

Reference: Wood, SN, 2006, Generalized Additive Models: An Introduction with R, Chapman & Hall/ CRC, Boca Raton, Florida

Scientific and Social Program (tentative)

Sunday, June 10

Contributed Poster Session (afternoon) and Cocktail (evening)

Monday, June 11
(morning)

1. Inaugural session and SSC Presidential Invited Address

Organizer: Charmaine Dean (President SSC)

2A. Diagnostics for the Retrospective Problem in Sequential Population Analysis of Exploited Fish Stocks

Organizer: Noel Cadigan (Fisheries and Oceans Canada)

Speakers:

- [1] Robert Mohn (Fisheries and Oceans Canada)
- [2] Larry Jacobson (Northeast Fisheries Science Center)
- [3] Noel Cadigan (Fisheries and Oceans Canada)

Session sponsored by the Biostatistics Section

2B. Design and Analysis of Experiments for Complex Physical Systems

Organizer: Derek Bingham (Simon Fraser University)

Speakers:

- [1] Dave Higdon (Los Alamos National Laboratory)
- [2] Vijay Nair (University of Michigan)
- [3] Charles Nakhleh (Los Alamos National Laboratory)

Session sponsored by the Business and Industrial Statistics Section

2C. Generalized Quasi-likelihood Inference

Organizer: Pat Farrell (Carleton University)

Speakers:

- [1] Wasimul Bari (Memorial University)
- [2] Milorad Kovacevic (Statistics Canada)
- [3] Katrina Rogers-Stewart (Carleton University)

2D. Recent Developments in Multivariate Survival Data Analysis Methodology

Organizer: Wenqing He (University of Western Ontario)

Speakers:

- [1] Jianguo Sun (University of Missouri)
- [2] Jianwen Cai (University of North Carolina)
- [3] Charmaine Dean (Simon Fraser University)

Discussant:

- [4] Jerry Lawless (University of Waterloo)

3A. The Canadian Journal of Statistics Award Address

Organizer: Nancy Reid

3B. Case Study I

Organizer: Peggy Ng (York University)

3C. Mathematical Finance and Stochastic Analysis I

Organizer: Martin Barlow (University of British Columbia)

Speakers:

- [1] Matt Davison (University of Western Ontario)
- [2] Roge Mamon (University of Western Ontario)
- [3] Tom Hurd (McMaster University)
- [4] Anatoliy Swischuk (University of Calgary)

Session sponsored by the Probability Section

3D. Controversies over Fish Stocks

Late-Breaking Invited Session

Organizer: Noel Cadigan (Fisheries and Oceans Canada)

Speaker:

- [1] Peter Shelton (Fisheries and Oceans Canada)

Session sponsored by the Atlantic Association for Research in the Mathematical Sciences

4A. Strategic Directions in Household Surveys Development

Organizer: Edward Chen (Statistics Canada)

Speakers:

- [1] Jack Gambino (Statistics Canada)
- [2] Nikki Bennett (Office of National Statistics)
- [3] Alfredo Navarro (US Census Bureau)

Session sponsored by the Survey Methods Section

4B. Mathematical Methods for Studying Patient Wait Times

Organizer: Wendy Lou (University of Toronto)

Speakers:

- [1] Michael Carter (University of Toronto)
- [2] Wendy Lou (University of Toronto)
- [3] Boris Sobolev (University of British Columbia)

Session sponsored by the Biostatistics Section

4C. Reliability Models and Their Applications

Organizer: Thierry Duchesne (Laval University)

Speakers:

- [1] Alex Whitmore (McGill University)
- [2] Jerry Lawless (University of Waterloo)
- [3] Andrew Jardine (University of Toronto)

Session sponsored by the Business and Industrial Statistics Section

4D. Markov Chain Monte Carlo and Quasi Monte Carlo -- A Productive Marriage

Organizer: Radu Craiu (University of Toronto)

Speakers:

- [1] Art Owen (Stanford University)
- [2] Christiane Lemieux (University of Waterloo)
- [3] Xiao-Li Meng (Harvard University)

4E. Case Study II

Organizer: Alison Gibbs (University of Toronto)

**Tuesday, June 12
(morning)**

5. Gold Medal Address

Organizer: Mary Thompson

Speaker: Chris Field (Dalhousie University)

6A. Remedies for Sample Survey Outliers

Organizer: Mike Hidirolou (Statistics Canada)

Speakers:

- [1] Alan Dorfman (Bureau of Labor Statistics)
- [2] François Beaumont (Statistics Canada)
- [3] Mary Mulry (US Census Bureau)

Session sponsored by the Survey Methods Section

6B. Mathematical Finance and Stochastic Analysis II

Organizer: Robert Elliott (University of Calgary)

Speakers:

- [1] Sasha Melnikov (University of Alberta)
- [2] Cody Hyndman (Concordia University)
- [3] John van der Hoek (University of Adelaide)
- [4] Abel Cadenillas (University of Alberta)

Session sponsored by the Probability Section

6C. Statistical Methods for Correlated Data

Organizer: Tulay Koru-Sengul (McMaster University)

Speakers:

- [1] Gerarda Darlington (University of Guelph)
- [1] Joanna Mills Flemming (Dalhousie University)
- [3] Stephanie Dixon (University of Guelph)

Session sponsored by the Committee on Women in Statistics and the Caucus for Women in Statistics

6D. Isobel Loutit Invited Address on Business and Industrial Statistics

Organizer: Gemai Chen (University of Calgary)

Speaker:

- [1] Bovas Abraham (University of Waterloo)

**Tuesday, June 12
(afternoon)**

7A. Special Invited Session sponsored by the Probability Section

Organizer: Murray Burke (University of Calgary)

Speaker:

- [1] Robert Elliott (University of Calgary)

7B. Statistical Genetics

Organizers: Paul Peng & J. C. Lored-Osti (Memorial University)

Speakers:

- [1] Laurent Briollais (University of Toronto)
- [2] Jinko Graham (Simon Fraser University)
- [3] Michael Newton (University of Wisconsin-Madison)

7C. Statistical Graphics and Image Analysis

Organizer: Peihua Qiu (University of Minnesota)

Speakers:

- [1] Jia Li (Pennsylvania State University)
- [2] Christine Mueller (Universität Kassel)
- [3] Peihua Qiu (University of Minnesota)

Session sponsored by the Business and Industrial Statistics Section

7D. Statistics Applied to Hydrology and Climatology

Organizer: Anne-Catherine Favre (Institut national de la recherche scientifique)

Speakers:

- [1] Eric Parent (ENGREF, France)
- [2] Jean-François Angers (Université de Montréal)
- [3] Luc Perreault (Hydro-Québec)

7E. NPCDS Invited Poster Session and Roundtable Discussion

Organizer: James Stafford (University of Toronto)

Session sponsored by the National Program on Complex Data Structures

8A. Latest Developments in Small Area Estimation, Theory and Practice

Organizer: Susana Rubin-Bleuer (Statistics Canada)

Speakers:

- [1] Partha Lahiri (University of Maryland)
- [2] N.G.N. Prasad (University of Alberta)
- [3] Susana Rubin-Bleuer (Statistics Canada)

Discussant:

- [4] J.N.K. Rao (Carleton University)
- Session sponsored by the Survey Methods Section*

8B. Stochastic Partial Differential Equations and their Applications

Organizer: Hao Yu (University of Western Ontario) & Shui Feng (McMaster University)

Speakers:

- [1] Mike Kouritzin (Random Knowledge Inc.)
- [2] Feng-Yu Wang (Beijing Normal University)

Session sponsored by the Probability Section

8C. Inaugural Invited Lecture of the National Program on Complex Data Structures

Organizer: Jamie Stafford (University of Toronto)

Speaker:

- [1] Andrew Lawson (University of South Carolina)

8D. Confidence Intervals and Regions

Organizer: Eric Marchand (Université de Sherbrooke)

Speakers:

- [1] Tonglin Zhang (Purdue University)
[2] William Strawderman (Rutgers University)
[3] Dominique Fourdrinier (University of Rouen)

Wednesday, June 13 (morning)

9A. Pierre Robillard Award Address

Organizer: Ed Susko (Dalhousie University)

9B. Genetic Epidemiology

Organizer: Karen Kopciuk (University of Calgary)

Speakers:

- [1] Dan Nicolae (University of Chicago)
[2] Lei Sun (University of Toronto)
[3] Joanna Biernacka (University of Newcastle upon Tyne)

Session sponsored by the Biostatistics Section

9C. Data with Extra Zeros Applied in Ecology

Organizer: Joanna Mills Flemming (Dalhousie University)

Speakers:

- [1] Alan Welsh (Australian National University)
[2] Eva Cantoni (University of Geneva)

10A. Special Invited Session sponsored by the Survey Methods Section

Organizer: Milorad Kovacevic (Statistics Canada)

Speaker:

- [1] Robert Smith (Statistics Canada)

10B. Statistical Methods for Causal Inference

Organizer: Robert Platt (McGill University)

Speakers:

- [1] Erica Moodie (McGill University)
[2] Robert Platt (McGill University)
[3] Tom Ten Have (University of Pennsylvania)

Session sponsored by the Biostatistics Section

10C. Matrices and Statistics I

Organizer: George Styan (McGill University)

Speakers:

- [1] Richard Brualdi (University of Wisconsin--Madison)
[2] Jeff Hunter (Massey University)
[3] Gotz Trenkler (Universität Dortmund)

10D. Point Processes

Organizer: Rolf Turner (University of New Brunswick)

Speakers:

- [1] Gail Ivanoff (University of Ottawa)
[2] Jim Ramsay (McGill University)

Wednesday, June 13 (afternoon)

11. Address of the winner of the Centre de Recherches Mathématiques/Statistical Society of Canada Prize

12A. Forestry

Organizer: Reg Kulperger (University of Western Ontario)

Speakers:

- [1] Cordy Tymstra (Dept. of Sustainable Resource Development)
[2] Doug Woolford (University of Western

Ontario)

[3] Jason Myers (University of Toronto)
Session sponsored by the National Program on Complex Data Structures and the Statistical Society of Canada

12B. Applications of Empirical Likelihood in Survey Sampling

Organizer: Jiahua Chen (University of Waterloo)

Speakers:

- [1] Jae-Kwang Kim (Yonsei University)
[2] Songxi Chen (Iowa State University)
[3] Suojin Wang (Texas A&M University)

12C. Matrices and Statistics II

Organizer: George Styan (McGill University)

Speakers:

- [1] Simo Puntanen (University of Tampere)
[2] Ejaz Ahmed (University of Windsor)
[3] Tonu Kollo (University of Tartu)

12D. Robust Statistics

Organizer: Matias Salibian-Barrera (University of British Columbia)

Speakers:

- [1] Ivan Mizera (University of Alberta)
[2] Julie Zhou (University of Victoria)
[3] David Tyler (Rutgers University)

ANNOUNCEMENTS

Paul Gustafson is the New Editor of *The Canadian Journal of Statistics*

Paul Gustafson has been appointed Editor of *The Canadian Journal of Statistics* (CJS) for the period 2007–2009. He holds degrees from the University of British Columbia (B.Sc. 1990, M.Sc. 1991) and Carnegie-Mellon University (Ph.D. 1994). He has been a faculty member in the Department of Statistics at the University of British Columbia since 1995, becoming a Professor in 2005. His research interests involve the development and application of Bayesian inference methods, most notably in biostatistics.

Prior to beginning his term as Editor, Paul was a CJS Associate Editor for six years. He also served as an Associate Editor for the *Journal of Statistical Planning and Inference*, *Lifetime Data Analysis and Statistics in Medicine*. His involvement with the Canadian statistical community includes a term as member and then chair of the Statistical Sciences Grant Selection

Committee for the Natural Sciences and Engineering Research Council (NSERC). He is also the current President of the Biostatistics Section of the Statistical Society of Canada (SSC).

To assist him as Editor, Paul has appointed the following Associate Editors: Shelley Bull (University of Toronto), Arnaud Doucet (University of British Columbia), Peter M. Hooper (University of Alberta), Gail Ivanoff (University of Ottawa), Neil Klar (University of Western Ontario), Denis Larocque (HEC Montréal), Christian Léger (Université de Montréal), Richard A. Lockhart (Simon Fraser University), Jeffrey Rosenthal (University of Toronto), David A. Stephens (McGill University), Edward Susko (Dalhousie University), Steven K. Thompson (Simon Fraser University), Liquan Wang (University of Manitoba), William J. Welch (University of British Columbia), Douglas P. Wiens (University of



Alberta), Changbao Wu (University of Waterloo), and Grace Y. Yi (University of Waterloo). A statement outlining Paul's editorial views will appear in the March 2007 issue of *The Canadian Journal of Statistics*. See also: www.mat.ulaval.ca/cjs.

ICES-III Focuses on Survey Methods for Businesses, Farms, and Institutions

June 18-21
Hyatt Regency Montréal
Montréal, Québec

ICES-III, to take place June 18–21, 2007, promises to be a stimulating and full examination of the current state of the art for surveying businesses, farms, and institutions. Both the invited and contributed programs cover a spectrum of interesting and applicable subjects, including:

- The efficient use of administrative data in business surveys
- Advances in disclosure protection
- Using linearization variance estimators for survey estimates
- Electronically collecting data
- Updating business registers
- Factors affecting establishment survey

- participation
- Using tax data in estimation

The complete invited and contributed programs will be available December 18, 2006, at www.amstat.org/meetings/ices/2007/index.cfm?fuseaction=program.

The conference—jointly sponsored by the ASA, the International Association of Survey Statisticians, the Statistical Society of Canada, the ASA Section on Survey Research Methods, and the ASA Section on Government Statistics—is slated for the Hyatt Regency Montréal. Though Montréal is a city rich in history, art, culture, learning, and sports, ICES-III planners still have lined up a social program that includes a tour of Montréal and the Notre-Dame Basilica, beer tasting, a dinner cruise, and walking tours. Complete information can be found at www.amstat.org/meet-

[ings/ices/2007/index.cfm](http://www.amstat.org/meetings/ices/2007/index.cfm) on December 18, 2006.

Other conference highlights include two full-day short courses and two half-day short courses, a keynote address by Robert W. Edwards of the International Monetary Fund, eight introductory overview lectures, poster sessions, software demonstrations, and a closing dinner followed by a panel discussion. After the conference, a CD-ROM of presented papers will be sent to all participants.

To register online and view the entire invited and contributed programs and social program, visit www.amstat.org/meetings/ices/2007/index.cfm on December 18, 2006. Hotel reservations open December 18, 2006, and close May 17, 2007. For further information, send an email to ices3@census.gov.

2007 Election - List of Candidates

David Binder

Executive Committee

President-Elect

Roman Viveros-Aguilera

Treasurer (two-year term)

Edward Chen

Regional Representatives (two-year terms)

Atlantic provinces (one to be elected)

Hugh Chipman
David Hamilton

Quebec (two to be elected)

François Bellavance
Hélène Bérard
Roch Roy
Arusharka Sen

Ontario (two to be elected)

Fernando Camacho
Gerarda Darlington
Jeanette O'Hara Hines
Sudhir Paul

Manitoba-Saskatchewan-N.W.T.- Nunavut (one to be elected)

Llewellyn Armstrong
Lisa Lix

Alberta-B.C.-Yukon (one to be elected)

Joan Hu
Mary Lesparance

Biostatistics Section

President-Elect

TBA

Secretary (three-year term)

Karen A. Kopciuk

Treasurer (two-year term)

Lehana Thabane

Business and Industrial Statistics Section

President-Elect

Smiley Cheng

Secretary (three-year term)

Shirley Mills

Probability Section

President

Edit Gombay

President-Elect

Bruno Remillard

Secretary (three-year term)

Richard Lockhart

Survey Methods Section

President-Elect

Julie Trépanier

Secretary (two-year term)

Cynthia Bocci

Fields Institute Summer Workshop on Environmetrics

*Román Viveros-Aguilera
McMaster University*

**July 17-19, 2007
University of Waterloo
Waterloo, Ontario**

Featuring experienced researchers and environmental scientists from existing environmental programs, the Fields Institute summer workshop will shed light on the key role of sound statistical methodology in environmental assessment and protection. The primary intended outcome is to raise awareness and interest among environmental scientists and statisticians, particularly those from continental North America, to join forces and integrate their expertise. A longer-term goal is to generate a strong interest for the creation

of a graduate program in environmetrics in central-eastern Canada. The main targeted audience will be from academia, research centers and government agencies and will include statisticians, biologists, ecologists, natural resource management scientists and graduate students interested in problems related to environmental science. We expect about 100 participants with approximately 40 graduate students among them.

The main topics to be addressed in the workshop sessions are:

- What is environmental statistics? (Day 1)
- Challenges in quantitative environmen-

tal research (Day 2)

- Creating graduate programs in environmetrics (Day 3)

Among the confirmed lecturers and panelists are:

David Brillinger (Statistics, University of California at Berkeley), Mark Buehner (Environment Canada), Michael Dowd (Mathematics and Statistics, Dalhousie University), Zbdel El-Shaarawi (National Water Research Institute, Canada Center for Inland Waters), Jon Grant (Oceanography, Dalhousie University), Timothy G. Gregoire (Forestry and Environmental Studies, Yale University), Stephen Murphy (Environment and Resource Studies, Uni-

ANNOUNCEMENTS

versity of Waterloo), Maren Oelbermann (Environment and Resource Studies, University of Waterloo) and Rick Rutledge (Statistics and Actuarial Science, Simon Fraser University).

The workshop is co-sponsored by the Fields Institute, MITACS, NPCDS, Statis-

tical Society of Canada and University of Waterloo. Online registration opens February 2006. Registration is free, but space is limited. More details are available on the workshop official website: www.fields.utoronto.ca/programs/scientific/07-08/envirometrics, the site is regularly updated. For information, contact the Chair

of the Organizing Committee: Dr. Grace Chiu, University of Waterloo, gchiu@uwaterloo.ca.

Complete online access to *The Canadian Journal of Statistics*

Full-text copy of all the articles in all the issues of *The Canadian Journal of Statistics* from vol. 1, no. 1, 1973, through vol. 34, no. 4, 2006, is now available online. Online access for vol. 1–31 (1973–2003) is provided by JSTOR: The Scholarly Journal Archive at www.jstor.org and for vol. 32–34 (2004–2006) by Ingenta.

All institutions and libraries with a subscription to *The Canadian Journal of Statistics* for vol. 35 (2007), and all individual members of the Statistical So-

ciety of Canada (SSC) who have elected to receive the Journal for 2007 will receive the paper copy of volume 35 (2007) and in addition, at no extra charge, may have online full-text access through Ingenta to vol. 35 (2007), as well as for vol. 32–34 (2004–2006).

To obtain online access through Ingenta, all institutions, libraries and individuals who are not yet registered with Ingenta must first register at www.ingentaconnect.com/register/personal and receive a unique Customer Identification Number

(CID). Access should then be requested at www.ingentaconnect.com/about/librarians/activating_subscriptions. Once requests have been processed, access to the journal will be available at www.ingentaconnect.com/content/ssc/cjs.

Note also that all abstracts, in English and in French, together with MSC Codes and keywords and phrases of articles in *The Canadian Journal of Statistics* are available online openaccess on the journal's website at www.mat.ulaval.ca/cjs from volume 1 (1973) onwards.

UPCOMING CONFERENCES AND MEETINGS

March

March 27–30, Statistik unter einem Dach / Statistics under one roof, Bielefeld, Germany. First joint conference of German Statisticians organized by DAGStat-Deutsche Arbeitsgemeinschaft Statistik/German Statistical Working Group. Confirmed invited speakers are: Raymond J. Carroll, Lon Cardon, Ralf Korn, Helmut Lütkepohl, Johann Pfanzagl. For further information, please see the conference website: www.statistik2007.de.

April

April 11–13, Joint ENBIS-DEINDE 2007 Conference, Torino, Italy. This conference is to join common areas of interest of DEINDE (DEsign of INDustrial Experiments) and ENBIS (European Network for Business and Industrial Statistics) organizations. The conference intends to bring together both leading experts and researchers, thus creating a forum

to cover recent progress and to stimulate exchange among active researchers. It will also encourage informal contacts and discussion among participants. For more please see the conference website: web.econ.unito.it/deinde07.

May

May 17–19, United States Conference on Teaching Statistics (USCOTS 07). The second biennial United States Conference on Teaching Statistics (USCOTS 07) will be held at the Ohio State University in Columbus, Ohio, hosted by CAUSE, the Consortium for the Advancement of Undergraduate Statistics Education. The target audience for USCOTS is teachers of undergraduate and AP statistics, from any discipline or type of institution. For more information, contact Dr. Deb Rumsey, USCOTS 07 Program Chair: rumsey@stat.ohio-state.edu or visit the conference website causeweb.org/uscots.

May 23–26, 2007 Symposium on the Interface: Computing Science and Statistics, Philadelphia, PA, USA. The general theme of Interface 2007 will be Systems Biology. The conference is being hosted jointly by the Center for Statistical and Information Science (Alan J. Izenman, Director) and by the Center for Information Science and Technology (Zoran Obradovic, Director) at Temple University. Submissions are welcome. For more information, please contact Alan J. Izenman, Department of Statistics, Speakman Hall, 1810 North 13th Street, Philadelphia, PA 19122-6083, (215) 204-8166, alan@temple.edu.

May 28–31, Canadian Society for Epidemiology and Biostatistics Biennial Meeting, Calgary, Alberta. The theme of this meeting is "Epidemiology in a Changing World", which will highlight current issues such as new infectious diseases, new trends in chronic disease epidemiology and new challenges in the research environment. The five plenary sessions

UPCOMING CONFERENCES AND MEETINGS

will feature distinguished Canadian speakers, and numerous contributed sessions will focus on particular issues. For further information, please see the conference website: www.cseb.ca/en/events/conference2007.htm.

June

June 1–3, 16th International Workshop on Matrices and Statistics (IWMS-2007), Windsor, Ontario. Dept. of Mathematics and Statistics, University of Windsor. For more information: www.uwindsor.ca/IWMS, iwms@windsor.ca, tel. (519) 253-3000 ext. 3015, fax: (519) 971-3649.

June 3–6, ICSA 2007 Applied Statistics Symposium, Raleigh, NC, USA. The 16th Annual ICSA Applied Statistics Symposium, organized by the International Chinese Statistical Statistician will be held at Research Triangle Area in North Carolina. Short courses will be on June 3 and technical sessions on June 4 to June 6 with keynote speeches from Dr. Janet Woodcock (FDA Deputy Commissioner) and Professor LJ Wei (Harvard University). The Symposium invites talks on all aspects of statistics. Please submit contributed paper abstracts via e-mail to: Cory Hughes at chughes@bios.unc.edu. The symposium also sponsors student awards and travel grants. For more information, please contact Shuyen Ho at shu-yen.ho@gsk.com.

June 3–7 Quality and Productivity Research Conference, Santa Fe, USA. The Quality and Productivity Research Conference is held annually to showcase new advances in industrial applications of statistics and quality engineering. In 2007 it will be held at the Santa Fe Hilton, in scenic New Mexico. More details about the program will be available soon.

June 10–13, SSC-2007, Annual Meeting of the Statistical Society of Canada, St. Johns, Newfoundland. Memorial University of Newfoundland will be hosting the 35th annual meeting of the Statistical Society of Canada. Details can be found on the website www.ssc.ca as they become available. For more information on

the programme contact John Braun at braun@stats.uwo.ca and for information on local arrangements contact Brajendra Sutradhar bsutradh@math.mun.ca. Tel: (709) 737-8731 Fax: (709) 737-3010.

June 12–14, Conference on Ordered Statistical Data and Inequalities: Theory & Applications, Amman, Jordan. The conference on Ordered Statistical Data is an international annual conference. It aims at creating a stimulating atmosphere for researchers in the area by fostering research, discussion, and exchange of ideas on statistical work on ordered data. The conference was held in Warsaw (2002-2004), Turkey (2005), and Iran (2006). For more info visit the website www.ju.edu.jo/osdi, www.stat.ohio-state.edu/~hnn.

June 18–21, International Conference on Establishment Surveys III, Montreal, Quebec. The Third International Conference on Establishment Surveys (ICES-III) will be held at the Hyatt Regency Montréal, Quebec, Canada, from June 18 to 21, 2007. ICES-I in 1993 convened more than 400 experts in the area of surveys of businesses, farms, and institutions. It set the stage by formally documenting the state of the art in 1993. In 2000, ICES-II took a forward look at methods for surveying businesses, farms, and institutions. ICES-III will explore the current state of the art. There will be a selection of proposals for invited paper sessions. In addition, the conference will include a keynote speaker on Monday, June 18, contributed papers, poster sessions, three short courses, software demonstrations, and a closing program on Thursday, June 21. For more information please send an e-mail message to ices3@census.gov or visit the website www.amstat.org/meetings/ices/2007/index.cfm.

June 24–27, 27th Annual International Symposium on Forecasting, New York City, NY, USA. The theme of ISF2007 is financial forecasting in a global economy. The objectives are to facilitate the dissemination of knowledge of new developments in forecasting techniques and evaluation, and to promote discussion of ideas on forecasting among academicians and practitioners from a diverse range of

fields, including Econometrics, Statistics, Finance, Climate and Environment, Public Policy, Information Systems, Psychology, Demography, Energy, and Business. In addition, the conference will include a number of keynote and featured speakers. Deadline for electronic submission of abstracts is March 2, 2007. For more information, visit www.forecasters.org/isf, or contact General Chair - Kajal Lahiri (klahiri@albany.edu; 518.442.4758), or Program Chair - Terry Kinal (twk58@albany.edu; 518.442.4744), Department of Economics, University at Albany - SUNY, Albany, NY 12222.

July

July 9–11, 5th International Conference on Multiple Comparison Procedures, Vienna, Austria. The conference intends to bring statisticians from academy, industry and regulatory agencies together to present new research findings in multiple testing. For further details see the conference website: www.mcp-conference.org.

July 12–14, Sixth International Conference on Lattice Path Combinatorics and Applications, Johnson City, Tennessee, USA. This conference will follow in the tradition of earlier conferences at Hamilton (Canada), New Delhi (India), Vienna (Austria), and Athens (Greece). Invited tutorial talks will be given by G. Andrews, A. Kemp, I. Gessel, and W. Bohm. For more information see the conference website: www.etsu.edu/math/godbole/lattice/index.htm.

July 27–29, 4th Joint Meeting of the Canadian Society for History and Philosophy of Mathematics and The British Society for the History of Mathematics. Concordia University, Montreal. pallaire@qcc.cuny.edu, bradley@adelphi.edu, c.j.earle@exeter.ac.uk.

July 29–August 2, 2007 Joint Statistical Meetings, Salt Lake City, Utah. For detailed information, contact jsm@amstat.org or phone toll-free (800) 308-8943 or follow the link for 2007 Joint Statistical Meetings from the URL www.amstat.org/meetings/index.cfm?fuseaction=main.

UPCOMING CONFERENCES AND MEETINGS

August

August 2–4, 13th ISSAT International Conference on Reliability & Quality in Design, Seattle, Washington, USA. ISSAT Annual International Conference on Reliability & Quality in Design is calling for papers on topics: Reliability, Statistical Approaches in Reliability, Software Algorithms, Quality Engineerings, and more. Papers should be submitted by February 15, 2007 to the Program Chair: Prof. Toshio Nakagawa, Dept. of Marketing and Information Systems, Aichi Institute of Technology, 1247 Yachigusa, Yagusa-cho, Toyota-shi, 470-0392, Japan. For other details please see the conference website: www.issatconferences.org.

August 16-20, TIES 2007, 18th annual meeting of the International Environmental Statistics Society, Mikulov, Czech Republic. Details can be found on the website www.math.muni.cz/ties2007 as they become available. For more information on the program, contact Ivana Horová at horova@math.muni.cz. Tel (+ +420 549 49 4429).

August 22–29, International Statistical Institute 56th Biennial Session, Lisboa Portugal. International Statistical Institute, 56th Biennial Session: includes meetings of the Bernoulli Society, the International Association for Statistical Computing, the International Association of Survey Statisticians, the International Association for Official Statistics and the International Association for Statistical Education, to be held in Lisboa, Portugal. For more information, please visit the website www.cbs.nl/isi/.

September

September 3–5, ISI 56th Session Satellite Meeting on Small Area Estimation, Pisa, Italy. This conference follows SAE2005 (Jyväskylä, Finland) and it is organised by the IASS in co-operation with the University of Pisa, University of

Florence, University of Trieste, University of Cassino, ISTAT and the Italian Statistical Society. The scientific programme is characterized by having special invited sessions as well as contributed papers and posters covering topics on (i) theoretical and methodological developments in small area estimation and related fields, and in (ii) practical applications of small area estimation methods, including their potential uses in various research areas. For more information, please visit the website www.dipstat.ec.unipi.it/SAE2007.

October

October 31–November 3, Design and Analysis of Experiments (DAE2007) Memphis, Tennessee, USA. Department of Mathematical Sciences, The University of Memphis will be hosting the DAE2007 meeting during October 31, 2007 to November 3, 2007. It will be the fifth conference in the DAE conference series. As in earlier DAE conferences the principal aims of DAE2007 meeting will be to provide support and encouragement to junior researchers in the field of design and analysis of experiments and to stimulate interest in topics of practical relevance to science and industry. There are also opportunities for junior researchers to be paired with a senior mentor close to their areas of interest in the conference. DAE2007 is being sponsored by Department of Mathematical Sciences, The University of Memphis and is being held at Holiday Inn (University Campus) in Memphis. The conference website is: www.msci.memphis.edu/DAE2007.

2008

January 7–9, Living to 100: Survival to Advanced Ages, Orlando, Florida, USA. The Society of Actuaries Committee on Living to 100 Research Symposia is now organizing its third triennial international symposium on high age mortality and related issues to be held in January, 2008 in Orlando, Florida. Ages of interest are

ages 60 and over with special emphasis on ages 85 and over. Key objectives of the symposium include facilitating a significant improvement in the quality of population data at advanced ages, describing mortality projection methods, providing enhanced mortality rate and population projections, and discussing the implications of an aging population for social, financial, health care and retirement systems. Click on the link provided for more details on the Call for Paper. www.soa.org/ccm/content/areas-of-practice/life-insurance/research/living-to-100-survival.

May 25–30, SSC-2008, Annual Meeting of the Statistical Society of Canada, Ottawa Congress Center, Ottawa, Ontario. Pierre Lavallée [e-mail: Pierre.Lavallee@statcan.ca] is the local arrangements coordinator for this meeting. One goal for the program is to have some overlap with the joint meeting of the Canadian Math Society and the corresponding French society.

August 3–7, 2008 Joint Statistical Meetings, Denver, Colorado, USA. JSM (the Joint Statistical Meetings) is the largest gathering of statisticians held in North America. It is held jointly with the American Statistical Association, the International Biometric Society (ENAR and WNAR), the Institute of Mathematical Statistics, and the Statistical Society of Canada. Attended by over 5500 people, activities of the meeting include oral presentations, panel sessions, poster presentations, continuing education courses, exhibit hall (with state-of-the-art statistical products and opportunities), placement service, society and section business meetings, committee meetings, social activities, and networking opportunities. Denver is the host city for JSM 2008 and offers a wide range of possibilities for sharing time with friends and colleagues. For information, contact jsm@amstat.org or phone toll-free (800) 308-8943 or visit the website: www.amstat.org/meetings/.

CJS: Coming Attractions

Paul Gustafson
Editor, CJS

As I write this on January 2, I have been the Editor of *The Canadian Journal of Statistics* (CJS) for exactly two days. I find myself immersed in a rather steep learning curve. The journal is fortunate to have had a long string of excellent editors previously, and I must strive to avoid being a weak link in the chain!

Fortunately, numerous excellent researchers, collectively representing a broad range of interests, have agreed to be Associate Editors. You can find them listed on the journal website (www.mat.ulaval.ca/rcs). By the time you read this, you can also find on the website (and in the March 2007 issue of CJS) an editorial statement (one of the learning-curve items I am wrestling with in these first few days of the year).

The papers appearing in the March 2007 issue of the journal were of course shepherded through the review process by my predecessor, Doug Wiens. When I browse through the ten papers, I see many interesting ideas extending in many directions.

Aur lie Labbe and Mary Thompson write on the use of Bayesian hypothesis tests as inputs to a multiple testing procedure. They emphasize conditions under which the (frequentist) null distribution of the posterior probability of a directional alternative is uniform, so that such posterior probabilities can be plugged in to false discovery rate procedures. As with many CJS contributions, there is a nice mix of theory and application in this paper, with the application being to the analysis of microarray data in this case.

Renato Assun  o and co-authors propose a method to test for clusters in data comprised of counts across space and time. Their motivating example involves crime data, though of course there is much interest in identifying ‘hotspots’ across space and time in other contexts as well, with disease surveillance being a prime exam-



Paul Gustafson

ple. In a related vein, Elvan Ceyhan, Carey Priebe and David Marchette propose tests for spatial structure, in situations where the datapoints across space belong to different classes. The technical basis of the test involves a ‘proximity-catch’ digraph which reflects the relative positions of points from various classes.

Jung Wook Park, Marc Genton and Sujit Ghosh write on time-series analysis when the data are imperfect because of detection limits. Particularly they propose a data imputation strategy within the ARMA model framework, and illustrate their method on meteorological data. Also in a time-series vein, P.W. Fong and co-authors consider a mixture vector autoregressive model, with an EM algorithm used for estimation. This results in a rather flexible model for multiple time series. Also, Abdessamad Saidi writes on consistent testing for non-correlation of two cointegrated ARMA time series.

A thorny problem in random effect models is counting the number of parameters, or more generally characterizing the model complexity. The ‘effective’ number of parameters increases with the magnitude of the variance component. On the Bayesian side, where random effect models are often described as hierarchical models, a criterion due to Spiegelhalter and co-workers is most often adopted

as the effective number of parameters, notably in the WinBUGS software that is widely used. Haolan Lu, James Hodges and Brad Carlin write on an alternative criterion, which does not always agree closely with the default suggestion. As a counterpoint to Bayesian hierarchical models where parameters of interest are effects on conditional means (given random effects), Ozlem Ilk and Michael Daniels present work on marginal models in a Bayesian framework. Building on earlier work in the literature, they present methodology for multivariate longitudinal binary responses.

Richard Lockhart, John Spinelli and Michael Stephens write on goodness-of-fit testing for discrete distribution models, using Cramer–von Mises statistics. They generalize from earlier work where the hypothesized discrete distribution is completely known to the more general case involving unknown parameters.

Finally, Aurore Delaigle discusses non-parametric density estimation when direct observations from the density of interest are not available. Rather, ‘corrupted’ observations can be made, where the corruption involves a combination of both Berkson and non-Berkson measurement error. Measurement error problems are generally quite tricky, since the answers obtained are sensitive to assumptions about the nature of the measurement error, and in many applications the nature of the error does not fall cleanly into the Berkson camp or cleanly into the non-Berkson camp. Thus this sort of investigation seems rather important.

Happy reading!

Evolution of Statistical Thinking in Executive Decision Making

Damon Mayes

A dolfphe Quetelet was one of the most prominent statistical thinkers in the social sciences during the 19 century. In 1837 he postulated that, "...statistics begins with the gathering of numbers; these numbers collected on a large scale with care and prudence, have revealed interesting facts and have led to the conjecture of laws ruling the moral and intellectual world, much like those that govern the material world. It is the whole of these laws that appears to me to constitute social physics, a science which, while still in its infancy, becomes *incontestably more important each day and will eventually rank among those sciences most beneficial to man.*" (Emphasis added.)

I quote Quetelet because I find his vision to be very compelling. Based on my experience, statistics is becoming "...incontestably more important each day and...beneficial to man." In support, I will discuss the value that statistics and statistical thinking brings to senior level decision making and to the general public. I will also share some lessons that have informed my statistical practice.

Of the many factors that influence the attainment of value to society (or benefit to man), I believe innovation is a primary component. Paraphrasing the Conference Board of Canada, innovation is defined as "A process through which economic or social value is extracted from knowledge – through the creation, diffusion, transformation...and use of knowledge." Creation involves generating new knowledge or significantly improving existing knowledge through activities such as research. Diffusion is the communication and sharing of knowledge through teaching, publishing, consulting, collaborating, reporting and mentoring. Transformation involves implementation strategies to position knowledge so that action may be taken to significantly improve products or processes. Once transformed, knowledge is used as it



Damon Mayes

becomes integrated into new products or processes that provide value to society (e.g., improved health outcomes, financial return, environmental impacts, improved quality of life, etc.). Traditional statistical practice usually ends at the diffusion stage – with the delivery of statistical information for the subsequent use by others (e.g., clients).

Statisticians play an important role in research, teaching and consulting activities. However, by participating in the transformation stage of the innovation cycle, statisticians optimize their impact on society. The benefit to moving statistical practice beyond the traditional purveyor of information role to sharing accountabilities for the implementation of the information we generate is that we play a more integrated and active role in the overall solution and gain increased recognition and profile for the good work we do.

I have been a practicing statistician for over 11 years both in and out of academe. My first significant consulting job followed soon after graduation from my Masters in the mid 90's. I was hired by the Chief Executive Officer (CEO) of a pension fund administration company as an internal consultant with the non-statistical title "Trustee Consultant." It was not initially apparent that this job would have any

relevance to statistics. My job description read "Conduct advanced research and modeling into the areas of capital market risk, asset allocation and long term policy mix for large tax exempt funds in Alberta and Yukon [primarily pension funds]... and develop policy charters that include strategies for hiring, monitoring and, if necessary, relieving money management firms of their responsibility should their performance relative to other firms in similar investment universes be significantly inferior or below industry standard benchmarks." It turned out that not only was there an opportunity to use my statistical skills, but also an opportunity to develop leadership and managerial skills.

A very important part of the job required that I integrate my statistical skills with company strategy to achieve business goals. It required more than the collection, assessment and analysis of data; it included responsibilities for the development of execution plans to enable the uptake of statistical (and other) information into the business processes. In the words of our CEO "Information has little relevance in the absence of an execution plan for its use." To accomplish this I had to be committed to the business solution throughout the innovation cycle and share in the responsibility for how statistical results would be applied.

For example, I was tasked with developing key performance metrics and a monitoring procedure that would identify money management firms that had exceptional, average, or below average performance (usually based on a measure of financial return). I used time series and Statistical Process Control (SPC) methodologies in combination to identify these groups of performers. My responsibility subsequently became that of helping our company's implementation team convert quantitative results into actions relevant to the business goals. This was where statistics came alive. I learned the tremendous impact

graphical analytic techniques had on our implementation team: no amount of discussion or calculation had more influence on understanding, and how the statistics were ultimately used. Indeed because of the team's substantive area of expertise they could see and put meaning to patterns and associations very quickly. This feedback in turn facilitated my analysis on a go-forward basis as I was provided critical contextual information that I would likely have missed if not part of the team. Statistical concepts in the absence of data were also extremely valuable for planning strategy. Generally, this was because statistical reasoning provided a framework for thinking about strategy, the foundation of which is based on cause-and-effect linkages between inputs (resources, statistical information etc.) and outputs (return on investment etc.).

All told, the iterative nature of this problem solving process, facilitated by integrated teamwork, had significant impacts on how executive decisions were made and had favorable impacts on the client's financial returns. Trust of the statistical results was also facilitated by these close interactions because the methodological processes became more transparent to our team. This highlights the value of statisticians becoming more involved with the substantive area of application. The fact that there are benefits to such activities likely comes as no surprise. Nevertheless, it is rare to find statisticians in such roles. It is equally uncommon to find statistically trained professionals in senior administrative positions in healthcare. On a positive note though, my current employer Capital Health, Edmonton, is progressively recognizing the importance of statistics as demonstrated by their support of initiatives and positions that make use of statistics to inform its executive team.

Capital Health provides complete health services to one million residents in the Edmonton and surrounding areas and is Alberta's largest employer. The region is comprised of 29,000 staff, 2400 physicians and facilities including 13 hospitals and two primary care centers.

Capital Health has been my full-time employer for almost five years. During this

period I have noticed a marked increase in data-supported decision making in both clinical and administrative contexts. Technology has contributed to this trend as it has enabled efficient data capture and retrieval but it has also had a profound effect on healthcare in other ways; this includes its impact on surgery, diagnostic and screening tests, and other medical and surgical procedures. It is therefore important that these technologies be rigorously assessed within the contexts of their use to ensure that desirable outcomes are achieved for both the patient and healthcare system.

For example, in the past two years I have worked for Capital Health's Office for Health Innovation, as Regional Project Manager, Health Technology Assessments. Health Technology Assessment is the systematic process of producing high-quality information about the clinical effectiveness, cost effectiveness, safety and broader impacts of new and emerging health technologies on the health of individuals, populations and the health system. The introduction and use of new health technologies (procedures, drugs, and medical devices) are key drivers of increased healthcare spending. In the context of fixed budgets, new technologies are usually acquired through reallocation of existing resources and hence it is important that careful consideration be given to their impact on the health system prior to their acquisition. The Office for Health Innovation uses the information generated from Health Technology Assessments to support decisions related to the acquisition and use of health technologies. Although statistical training was not a formal requirement for this job, it became apparent that statistics was of benefit to the work that we undertook. My Director (who is not formally trained in statistics) valued what statistics brought to the table and felt that having statistical expertise on the staff was important for the credibility of the projects we completed, particularly given the empirical nature of our work which included information generated from systematic reviews and meta-analyses.

Capital Health's executive have increasingly requested my help for a variety of

initiatives where statistics has made an important contribution to the decision making process. Among the most compelling evidence for the recognition that statistical thinking is valued among our executive staff is the recent creation of a corporate level administrative position that requires graduate-level, mathematically-based statistics training (in addition to leadership and management skills). I have been chosen to assume this new role early in 2007. In this position I will lead region-wide efforts in the development and implementation of evaluation frameworks used to assess the value that information technology provides our stakeholders. This information will additionally be incorporated into strategy that informs quality improvement initiatives and senior level decision making. Statistical principles and approaches will play a pivotal role in these initiatives. To my knowledge, there are no other positions like this in Canada, and Capital Health is leading the way.

Brief Biography

Damon Mayes is the Director of Evaluation and Benefits Realization for Regional Information Systems at Capital Health, Edmonton.

Prior to joining Capital Health, he worked for the University of Alberta, first as a lecturer, and then as a full time biostatistician where he collaborated with researchers from a variety of clinical specialties. He has coauthored in a wide range of peer-reviewed journals, has presented his research internationally, and has worked in Australia as a visiting scholar. Damon has had extensive consulting experience in industry and is founder and President of Empirika Consulting Corp., an Edmonton based company that integrates statistical principles with strategy to achieve business and research goals.

Damon has a B.Sc. (in Mathematics), M.Sc. (in Statistics) and has earned both the Professional Statistician designation in Canada, P.Stat., and Chartered Statistician designation, C.Stat., in the UK.

STUDENTS' CORNER

Survey Methods Section Student Paper Award

Changbao Wu
University of Waterloo

In 2003 the Survey Methods Section of SSC initiated an annual award for the best student paper in survey methodology. Papers presented by a student at the SSC annual meetings and submitted to the *Proceedings of the Survey Method Section* are automatically considered for the award. The winning paper is selected based on its overall contribution to survey methods. The award came with a certificate and a cheque of \$200 for 2003 and

2004; the dollar value has been increased to \$500 since 2005.

The 2005 best paper was awarded to Norberto Pantoja-Galicia of the University of Waterloo for his paper (co-authored with Mary Thompson and Milorad Kovacevic) "A Bivariate Density Estimation Approach Using Data from the Survey of Labour and Income Dynamics: An Example of Testing Order of Job Loss and Divorce".

For 2004 the winners were Emanuel Benhin of Statistics Canada, at that time a student at Carleton University, for the paper "Analysis of Categorical Data from Complex Sample Surveys Using Inverse Sampling" and Zilin Wang of Wilfrid Laurier University, at that time a student at the University of Western Ontario, for the paper (with David Bellhouse) "Shift Function Plots for Regression Fitting".

Student Travel Awards for SSC 2007 announcement

Paul Gustafson
G. Chen
M. Kovacevic

The SSC is again awarding travel supplements for students attending the 2007 SSC meeting. These awards are funded by the Society and its Sections, including the Biostatistics, Business and Industrial Statistics, and Survey Methods Sections.

Any full-time student giving a poster or a talk in a Contributed or Invited Paper Session, or participating in a Case Study Session, is eligible. In the case of multiple authors, only one award will be given per presentation. A student who has received

an SSC Travel Award within the last two years is not eligible this year. No more than two awards will be awarded per university department.

This award is to be used towards travel costs to the conference, up to a maximum of \$500.

To apply for the award, please send a cover letter, the title and abstract of your talk, and a short budget indicating the costs to be met by this award. Indicate the section (Biostatistics, Business and

Industry, Survey Methods, Probability or General) to which your paper belongs. Have your supervisor send a statement (e-mail is preferable) indicating that you are currently a full-time student.

Send the required information to Dr. Joanna Flemming (joanna.flemming@dal.ca), Chair of the Student Awards Committee, by 15 March 2007. Ensure that SSC Travel Award appears in the subject line of your email.

NEWS

British Columbia

Simon Fraser University

Charmaine Dean has been awarded a Burnaby Mountain Professorship in recognition of her outstanding contributions to research, teaching, and administration. Charmaine was the founding chair of our department and also played a pivotal role in developing Simon Fraser University's new Faculty of Health Sciences, serving an inaugural term as Associate Dean.

Carl Schwarz has been appointed as Editor of the *Journal of Agricultural,*

Biological, and Environmental Statistics for a three-year term starting in January 2007.

The Department is also pleased to announce that this year's winner of the SSC Endowment Award is Rina Wang. Rina immigrated from China after graduating from high school four years ago, and is already in her final year of her degree in Actuarial Science. By graduation, she will also have completed 12-months of co-op internship. She has already passed four of the demanding Society of Actuaries examinations.

Quebec

McGill University

Arak M. Mathi, Emeritus Professor of Mathematics and Statistics, McGill University, Canada, and Director, Centre for Mathematical Sciences, India, was given a research grant in 2006 for the equivalent of a half a million dollars in Indian Rupees by the Government of India for faculty recruitment and research activities.

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MEMORIAL UNIVERSITY OF NEWFOUNDLAND DEPARTMENT OF MATHEMATICS AND STATISTICS

Tenure-Track Position in Statistics

The Department of Mathematics and Statistics at Memorial University of Newfoundland invites applications for one regular tenure-track position in Statistics. The successful candidate will be appointed to a tenure track position at the Assistant Professor level. A completed earned doctorate is required for the appointee to receive the rank of Assistant Professor and to be in a tenure-track position. (If a successful candidate has not completed an earned doctorate, he/she shall be appointed to a regular term, non-renewable three-year appointment at the rank of Assistant Professor. If the candidate completes all the requirements for the doctorate during the first 24 months of the term appointment, he/she shall begin a tenure-track appointment following completion of the requirements of the degree).

Applications in all areas of Statistics will be considered, however preference may be given to candidates with research publications in Biostatistics and/or Sampling.

Duties will include graduate teaching and supervision; undergraduate teaching; and developing an active research program.

The closing date for applications will be February 26, 2007. Candidates should submit a Curriculum Vitae; description of research and teaching interests; and the names and addresses (include e-mail) of at least three referees. Applications should be sent to:

Head of Department, VPA-MAST-2006-001, Department of Mathematics & Statistics, Memorial University of Newfoundland, St. John's, NL, A1C 5S7 Canada. E-mail: mathstat@math.mun.ca, Internet: www.math.mun.ca

You MUST use the code VPA-MAST-2006-001 on all correspondence.

Memorial University is the largest university in Atlantic Canada. As the province's only university, Memorial plays an integral role in the educational and cultural life of Newfoundland and Labrador. Offering diverse undergraduate and graduate programs to almost 18,000 students, Memorial provides a distinctive and stimulating environment for learning in St. John's, a very safe, friendly city with great historic charm, a vibrant cultural life, and easy access to a wide range of outdoor activities.

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UNIVERSITY OF WATERLOO FACULTY OF MATHEMATICS

The Faculty of Mathematics has four departments and one school: Departments of Applied Mathematics, Combinatorics & Optimization, Pure Mathematics and Statistics & Actuarial Science, and the David R. Cheriton School of Computer Science. In addition to departmental and interdepartmental academic undergraduate programs, the Faculty has academic plans combining studies in mathematics and computer science with business and accounting.

There are approximately 170 faculty and 100 administrative and technical staff in the Faculty, which has a combined undergraduate and graduate enrolment of more than 4800 students. Students in the Faculty of Mathematics take a common set of courses in algebra, calculus, discrete mathematics, statistics and probability in the first two years of their programs.

The Faculty is seeking candidates for limited-term positions (maximum of 3 years) as lecturers who are able to teach elementary courses in two or more of the areas mentioned above. Candidates with a PhD degree are preferred, although those with a Masters degree will also be considered. Candidates must provide evidence of demonstrated or potential excellence in teaching. Successful candidates may be eligible for reappointment to a second term, and those demonstrating outstanding performance in teaching and service may be considered for an ongoing appointment as a Continuing Lecturer. Appointments will be made either in the Office of the Dean or in one of the units in the Faculty that most closely matches the appointee's areas of competence.

Applications should be directed to Dr. Thomas F. Coleman, Dean, Faculty of Mathematics, University of Waterloo, Waterloo, Ontario, Canada N2L 3G1 (mailto:dean@math.uwaterloo.ca) by April 30, 2007. Application material should include a curriculum vitae and the names and addresses of at least three references. The University of Waterloo encourages applications from all qualified individuals, including women, members of visible minorities, native peoples, and persons with disabilities. Canadian Citizens and Permanent Residents will be considered first for these positions. These appointments are subject to the availability of funds.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. The University of Waterloo encourages applications from all qualified individuals, including women, members of visible minorities, native peoples, and persons with disabilities.

SAS Analyst/Biostatistician

The Institute for Clinical Evaluative Sciences (ICES) is an independent, non-profit organization that conducts research on a broad range of topical issues to enhance the effectiveness of health care for the people of the province of Ontario. Internationally recognized for its innovative use of population-based health information, ICES research provides evidence to support health policy development and changes to the organization and delivery of health care services. You can learn more about ICES at www.ices.on.ca.

As a member of our Programming and Biostatistics team, you will work collaboratively with physicians and other researchers to develop study designs, assemble meaningful datasets for research questions, conduct exploratory and statistical analyses of the data, interpret the results, produce reports, and participate in writing papers for peer-reviewed journals.

This position requires an MSc in Biostatistics, Epidemiology, Health Sciences or a related field, as well as experience with SAS and other data management tools. As the ideal candidate you will have an aptitude for research methodology, demonstrated attention to detail, creativity in developing data measures, and initiative in resolving data anomalies. Strong oral and written communication skills are essential. Experience in the health care sector is preferred.

You are invited to apply to Kathy Sykora, Director, Programming and Biostatistics, Institute for Clinical Evaluative Sciences, 2075 Bayview Avenue, G106, Toronto, Ontario M4N 3M5, Fax: (416) 480-6048, e-mail: resumes@ices.on.ca.

Notice to Advertisers

SSC Liaison is published four times per year in February, May, July, and October. Deadlines for material are 1 September, 1 January, 1 April and 1 June, respectively. Camera-ready material may be accepted up to 15 days later at the discretion of the Editor. Please send your material to the **Liaison** office at the address below.

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