

September 2016 Workshop

**Applied Problem Solving and
Research Using Statistical Methods
with National Institute of Standards
and Technology Examples.**



Canada
Saskatchewan Section
The Global Voice of Quality™

Presenter

ADAM PINTAR,
PHD

ASQ Saskatchewan is excited to offer this workshop in both Regina and Saskatoon in September. Focusing on applied problem solving and research from the role of mathematical statistician with examples from actual NIST work. The workshop will also consider the role of statistics in standards and reliability at NIST. A special question and answer portion is being included, read more. This workshop will appeal to scientists in any field, practitioners in research and development, quality professionals and students wanting to learn about possible occupations using math and statistics. Any month is a great month to become a student member of ASQ, The Global Voice of Quality. We at ASQ Saskatchewan have a value packed agenda for you that includes great learning and great food. Being a student member has never been better; your membership provides deep discounts at all ASQ events and also unlocks the door to all of the great content ASQ provides online.

A student membership will guarantee you a spot at these sessions. For details on how to apply, go to:

<http://asq.org/membership/why-become-a-member/overview.html>.

Include your member number on the attached registration to guarantee your spot.

Workshop on
Applied Problem Solving and Research

ASQ Saskatchewan is pleased to provide a workshop in both Saskatoon and Regina: Applied Problem Solving and Research, to our members and the general public. Seating is limited and we expect these sessions to fill up quickly. Please complete the attached registration form to confirm your attendance. We have exceptional pricing packages for both members and non-members.

‘The Workshop – Saskatoon’

University of Saskatchewan session

This workshop is intermediate knowledge level. The topic will be the process of integrating statistical methods into applied problems. Several examples will provide the basis for discussion, including an approach to spatially resolving the source of a leak of geologically sequestered carbon dioxide. Both written and physical standards will be discussed. Written standards - maps of extreme wind speeds; Physical standards - the major commercial products of NIST are standard reference materials (SRMS). The speaker will concentrate on the use of Bayesian inference for estimation and uncertainty quantification in the production of SRMs. Reliability example - accelerated degradation of polymeric materials in the laboratory and subsequent prediction of field performance. Part 2, the Q&A portion is wide open. We ask participants to submit questions in advance that may stretch Adam's abilities. Have a tough problem or a theoretical question, now is the time. Email questions to adam.pintar@nist.gov

Venue

University of Saskatchewan - Edwards Rm 12

Attached files provide U of S campus map (with Edwards building highlighted in red circle), Floor plan for Edwards building (ground floor)

Event Schedule

September 23, 2016, 9:30 AM to 12:00 PM and 1:00 PM to 3:00 PM

Lunch and Coffee included

Special Thanks to Edwards School of Business, U of Saskatchewan, Acting Dean, Keith Willoughby; Statistics Division of ASQ; ASQ SK Section

Registration

ASQ Members	\$40.00 (All Faculty get the member rate)
Non Members	\$100.00 (3 or more, \$75.00 each)
Students	\$15 or Free seat guaranteed with student membership

Payment can be mailed to P.O. Box or at door. Cancellations after September 18 not allowed but substitutions welcome.

ASQ Saskatchewan Section, PO Box 39043, Saskatoon S7V 0A9, Canada

'The Workshop – Regina'

University of Regina session

This workshop is intermediate knowledge level. The topic will be the process of integrating statistical methods into applied problems. Several examples will provide the basis for discussion, including an approach to spatially resolving the source of a leak of geologically sequestered carbon dioxide. Both written and physical standards will be discussed. Written standards - maps of extreme wind speeds; Physical standards - the major commercial products of NIST are standard reference materials (SRMS). The speaker will concentrate on the use of Bayesian inference for estimation and uncertainty quantification in the production of SRMs. Reliability example - accelerated degradation of polymeric materials in the laboratory and subsequent prediction of field performance. Part 2, the Q&A portion is wide open. We ask participants to submit questions in advance that may stretch Adam's abilities. Have a tough problem or a theoretical question, now is the time. Email questions to adam.pintar@nist.gov.

Venue

University of Regina - Education Building 114

U of R campus map

<http://www.uregina.ca/contact/assets/docs/pdf/campus-map.pdf>

Event Schedule

September 22, 2016, 9:30 AM to 12:00 PM and 1:00 PM to 3:00 PM

Special Thanks to Shaun Fallat, Professor and Acting Dean
Department of Mathematics & Statistics; Statistics Division of ASQ; ASQ
SK Section

Lunch and Coffee provided

Registration

ASQ Members	\$40.00 (All Faculty get the member rate)
Non Members	\$100.00 (3 or more, \$75.00 each)
Students	\$15 or Free seat guaranteed with student membership

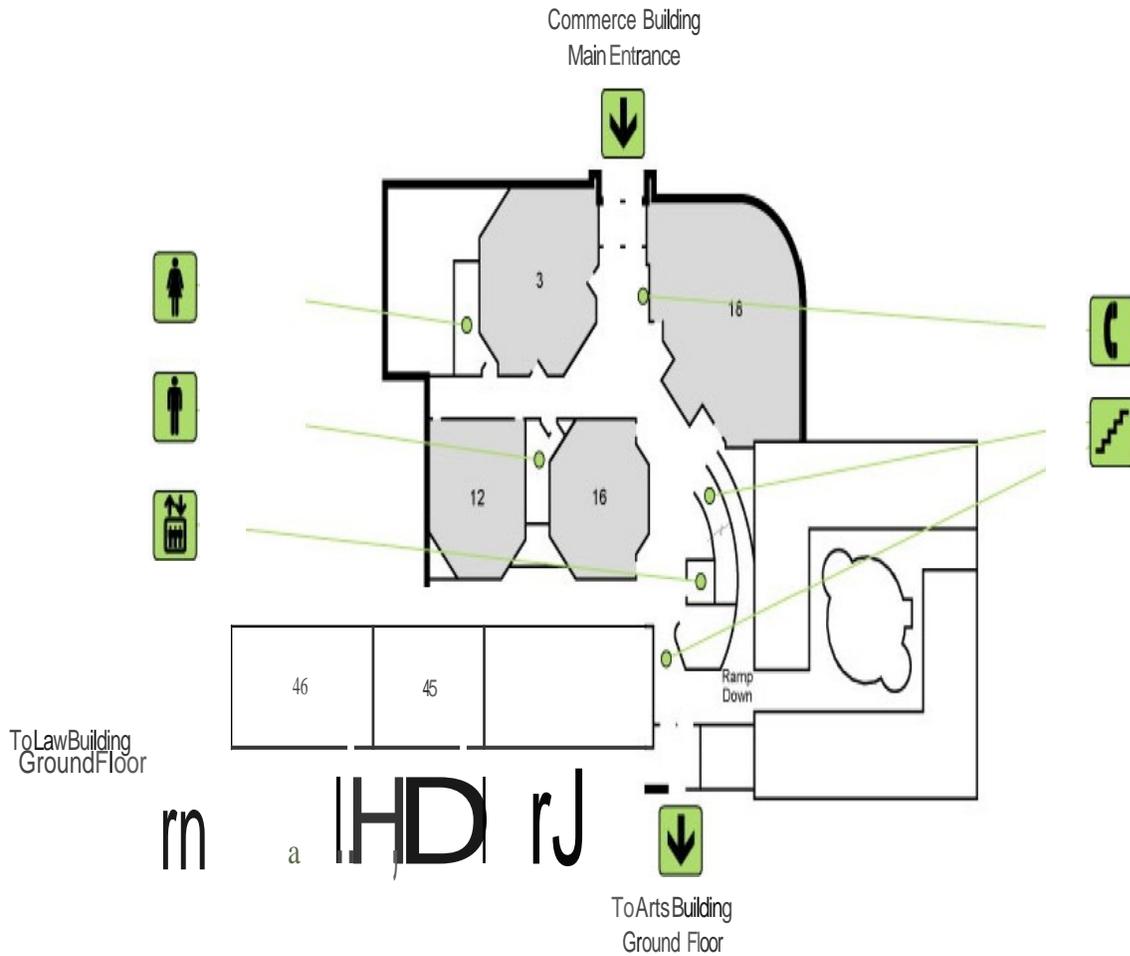
Payment can be mailed to P.O. Box or at door. Cancellations after September 18 not allowed but substitutions welcome.

Adam Pintar's Bio

Adam Pintar is a mathematical statistician at the National Institute of Standards and Technology. He received his PHD in Statistics from Iowa State University in 2010. His dissertation topic was model selection in regression problems, focusing on good prediction in a user specified region of the domain of the independent variables. His primary responsibilities at NIST are to provide statistical support to scientists, e.g., experiment design, sampling, graphical display of data, and probabilistic modeling. Adam is Past Chair of the Statistics Division at ASQ, a member of the American Statistical Association and speaks at conferences in North America and beyond on a regular basis.

ASQ Saskatchewan Section, PO Box 39043, Saskatoon S7V 0A9, Canada

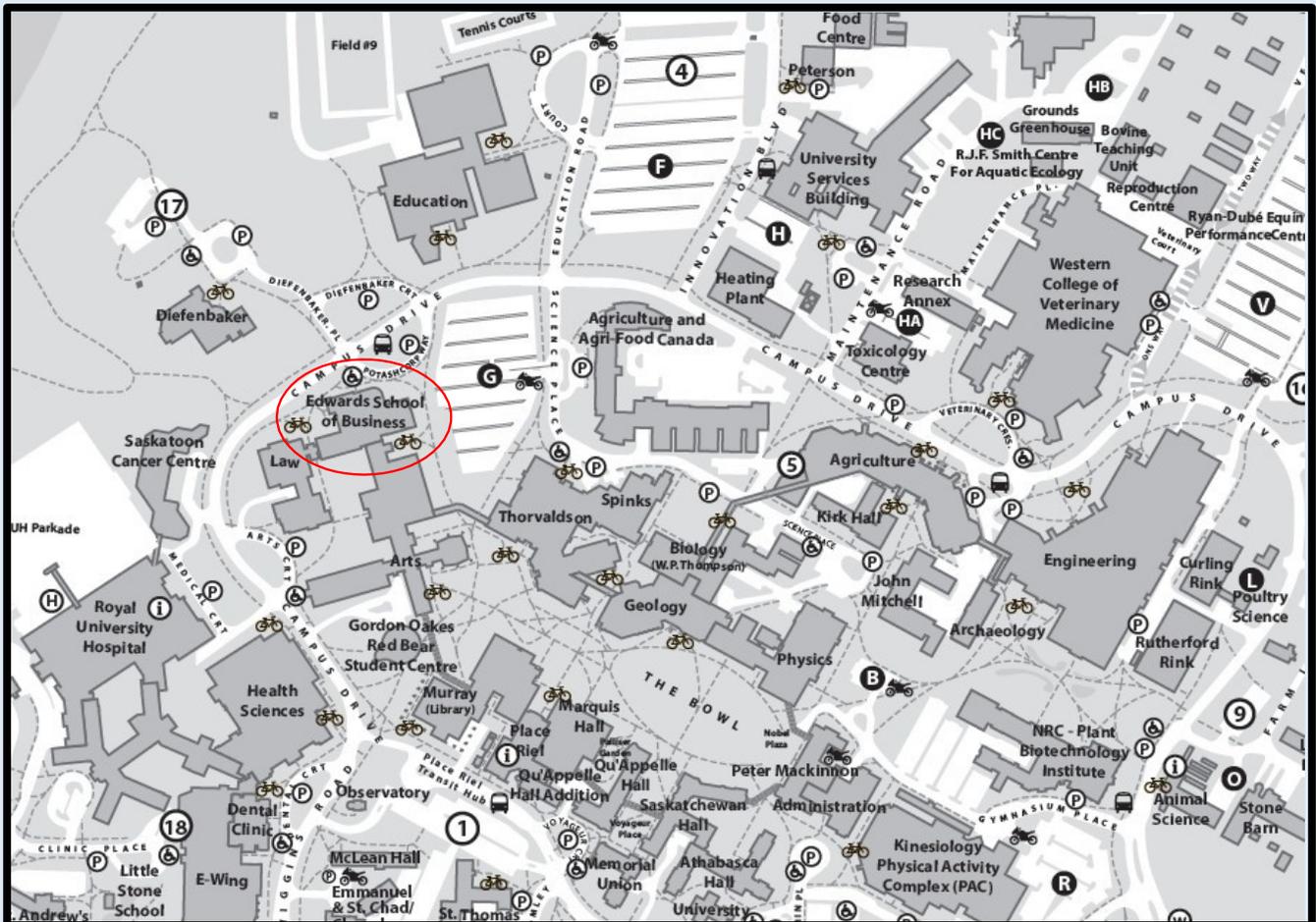
Floor plan for Edwards building (ground floor) - University of Saskatchewan



Ground Floor

U of S campus map

(With Edwards building highlighted in red circle)



ASQ Saskatchewan Section Workshop Registration Form – Sept 23 2016

ASQ Saskatchewan Section, PO Box 39043, Saskatoon S7V 0A9, Canada



Registration – U of S Workshop

Name _____

Company _____

Address _____ City _____

Province _____ Postal Code _____

Telephone _____ Facsimile _____

E-Mail: _____

Member or Faculty **(\$40)** _____ Member Number _____

Non-member _____ @\$100 = _____

Name: _____

Name: _____

Name: _____

Students:
Free with Student
Membership
\$15.00 without

Three or more attendees, \$75 each.

Payment:

_____ **Cheque** Please make your accompanying Cheque payable to ‘ASQ Saskatchewan’

_____ **Invoice** please invoice us

Note: Refunds are provided until September 18, 2016. After September 18, 2016, refunds are not accepted but substitutions welcome.

Please email your registration attention [Keith Willoughby \(ASQ 0414 chair\): chair@asqsaskatchewan.org](mailto:chair@asqsaskatchewan.org) for any questions and submit cheque to PO Box address provided below until September 18, 2015, after that you need to pay at Registration Desk on September 23, 2015.



Registration – Workshop ‘U of R Session’

Name _____

Company _____

Address _____ City _____

Province _____ Postal Code _____

Telephone _____ Facsimile _____

E-Mail: _____

Member or Faculty: **(\$40.00)** _____ Member Number _____

Non-member _____ @ \$100 = _____

Name: _____

Name: _____

Name: _____

Students: _____

**Free with
Student Membership
\$15 without**

Three or more from same organization, \$75. each.

Payment:

_____ **Cheque** Please Make your accompanying cheque payable to ‘**ASQ Saskatchewan**’

_____ **Invoice** please invoice us

Note: Refunds are provided until September 18, 2016. After September 18, 2016, refunds are not accepted but substitutions welcome.

Please email your registration attention Keith Willoughby (ASQ 0414 chair): chair@asqsaskatchewan.org for any questions and submit cheque to PO Box address provided below until September 18, 2016, after that you need to pay at Registration Desk on September 22, 2016.