

The NSW Branch of the Statistical Society of Australia Inc presents the **SECOND** free:

Workshop on integrating statistical ideas into mathematics

Wednesday 6 August 2008

12.30 pm - 5.30 pm

Macquarie Graduate School of Management Conference Centre
Caltex Theatre (Room 121)

Who should attend?

Secondary school mathematics teachers and teachers of statistics at university, heads of secondary school mathematics departments, personnel involved in developing secondary school mathematics syllabi and any other people interested in constructive ways of supporting those who will be teaching statistics topics within the Mathematics General 1 and Mathematics General 2 syllabi, to be introduced in 2010 in secondary schools.

About the workshop

The first workshop held in July 2007 proved an extremely successful platform to build links between people involved in planning and delivering the statistical components of secondary school mathematics syllabi and those involved in continuing the statistical education of students once they are in tertiary institutions. (Report can be found at <http://www.statsoc.org.au/Branches/nsw/branchhome.htm>.) This second workshop aims to continue strengthening the links by discussing possible structures for the professional development of mathematics teachers in statistical directions. The workshop will start with an update on the place of statistics topics in the new Mathematics General 1 and Mathematics General 2 syllabi. (Current draft syllabi can be found at http://www.boardofstudies.nsw.edu.au/syllabus_hsc/syllabus2000_listm.html.) This will then be followed by a number of presentations focussing on ideas for aiding teachers to teach the statistical topics in lively and memorable ways. After the coffee break the break-out groups will discuss the pros and cons of the various proposals put forward by the earlier speakers.

Workshop format

There will be four sessions. The first session will be a presentation on the current state of play in syllabus development. The following session will provide examples of effective ideas for statistical education at school level, with proposals for enhancing teachers' preparedness for this responsibility. After the coffee break, the third session will open with a presentation on how to integrate teaching of statistical ideas into the mathematics program. This will be followed by small-group discussions at which all participants are invited to express their views on the appeal of ideas that have been proposed. The final session will be a plenary at which the findings of the small-group discussions will be shared. Time for questions has been allowed for during each of the sessions.

After the workshop

The organisers' aim is to provide a summary of the ideas generated by workshop participants to relevant curriculum development and teacher education organisations and to devise an appropriate theme for a foreseen third workshop.

Workshop venue

Caltex Theatre (Room 121)
Macquarie Graduate School of Management Conference Centre
North Ryde

Details of how to get there can be found at: <http://www.hotel.mgsm.com.au/location.htm>

At the conclusion of the workshop we would like to invite you to join us for drinks and dinner at a nearby venue.

To register your interest for the workshop please email Caro Badcock on cbadcock@bordernet.com.au

Integrating statistical ideas into mathematics 2

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Programme

Time

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|--------------|--|
| 12.30 – 1.00 | Arrival and light lunch refreshments |
| 1.00-1.15 | Eric Beh (President NSW Branch, Statistical Society of Australia):
Welcome to the Workshop |
| 1.15 – 1.45 | Margaret Bigelow and Peter Osland - NSW Board of Studies
Update on the new Mathematics General 1 and Mathematics General 2 syllabi for secondary schools |
| 1.45 - 2.15 | Helen MacGillivray – ALTC (formerly Carrick) Senior Fellow, QUT
Statistical lessons from two decades of working with teachers and syllabi developers. |
| 2.15 - 2.35- | David Griffiths – University of Wollongong
One-day workshop for Mathematics teachers sponsored by UoW: structure and outcomes |
| 2.35 - 2.55 | Stuart Palmer - PLC Sydney (Croydon)
Using real data and building conceptual understanding |
| 2.55 - 3.15 | Coffee break |
| 3.15 - 3.35 | David Keanan-Brown - MANSW
Professional development activities from the MANSW perspective |
| 3.35 - 3.55 | Peter Howley & Liz Stojanovski – University of Newcastle
Keeping it real, keeping them interested and keeping it in their minds |
| 3.55 - 5.00 | Break out groups
Discuss the pros and cons of the various professional development models and teaching approaches |
| 5:00 – 5.20 | Feedback |
| 5.20 – 5.30 | Closing remarks |