Seminars

**Making Waves** – Peter Brown, UNSW School of Mathematics and Statistics
Trigonometry and the trigonometric functions make up a fair amount of both junior and senior Mathematics at High School. Apart from measuring distances and navigation, students are often at a loss to see why it is all so important.
In this talk I will be looking at trigonometric functions as ‘waves’ and showing how wave motion and signals can be modelled using them. Signal processing is the basis of all our telecommunication and mobile phone technology.
The talk will use material from Extension 1 and also integration by parts (which will be explained again) from Extension 2 Mathematics.

**Written to be Read** – Milan Pahor, UNSW School of Mathematics and Statistics
Increasingly, teachers of mathematics are being asked to create test questions with an expectation of creativity, clarity and rigour. The recent inclusion of multiple choice problems in the calculus based H.S.C. papers has further complicated these duties. This talk will examine the manner in which the 2012 crop of trial examinations responded to this challenge and what we can learn from the rigid conventions in style adopted by the Board of Studies.

**Down There on a Visit** – David Houghton, Visiting Teacher
The School of Mathematics at UNSW has a Visiting Teacher position each year. In 2012 it has been David Houghton. David will briefly relate his experiences with us and how it has impacted on his professional development as a teacher.

Program

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<tr>
<td>9:15am – 9:30am</td>
<td>Registration</td>
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<td>9:30am – 10:30am</td>
<td>Seminar 1 – Peter Brown</td>
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<td>10:30am – 11:00am</td>
<td>Morning tea</td>
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<td>11:00am – 11:45am</td>
<td>Seminar 2 – Milan Pahor</td>
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<td>11:45am – 12:00pm</td>
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Venue
Webster Theatre A, Robert Webster Building, (map reference G14), UNSW Kensington campus.

Who should attend?
All HSC Mathematics teachers
Teachers from Years 9 and 10 are also welcome

Cost
The Professional Development Short Course is $55.00 per teacher (including GST).
This includes three seminars and morning tea.

Registration
Online registration is now open: www.science.unsw.edu.au

Contact
Should you have any questions regarding this short course contact Nicole Cooney, Marketing Officer,
Faculty of Science on p. 9385 7311 or nicolecooney@unsw.edu.au

This course is registered with the NSW Institute of Teachers (Course code C07162).