



**Asia-Pacific  
Economic Cooperation**



**AMETEC**

**APEC-AMETEC sponsored workshop on  
“Biochemical responses of fish to oil spills and other marine pollutants”**

Instructed by experts from Australia, Canada, Korea and the USA

Following an oil spill or other cases of marine pollution, evidence is often required to demonstrate the “zone of influence” or the severity of the event. Biochemical responses of fish are increasingly being used in such assessments; these include measurement of the concentration and/or the enzymatic activity of Cytochrome P-450 1A (CYP1A) both of which may be induced in fish liver by exposure of the fish to polycyclic aromatic hydrocarbons (PAH). In this course, the following methods will be taught:

- Measurement of hepatic ethoxyresorufin-O-de-ethylase (“EROD”) (an indicator of the catalytic activity of CYP1A) by fluorescence spectrophotometry;
- Measurement of PAH metabolite concentrations in bile by fluorescence spectroscopy;
- Measurement of CYP1A concentrations by immunochemical methods.

The course will be taught by Dr. R.F. Addison (R.F. Addison Environmental Consulting, Ltd., Canada), Dr. T.K. Collier (NOAA, USA), Dr. J.H. Jung (KORDI, Korea) and Dr. S. Codi King (AIMS, Australia), all of whom are experienced in using these approaches during or following oil spills. The course will consist of lectures and practical laboratory work. Space is available for up to 10 participants from APEC economies. Participants should hold (at a minimum) a B.Sc. in biology, biochemistry or chemistry; they should be prepared to undertake practical laboratory work, and should be able to work comfortably in English. Each participant will also be expected to present and lead an informal evening discussion of his/her economy’s assessment of its marine pollution concerns.

The course will be held at KORDI (Korea Ocean Research and Development Institute) South Sea Institute, Geoje Island, South Korea, from November 3 - 14 (inclusive) 2008. Participants will be expected to arrive in Geoje no later than November 2 and leave not before November 15. (Detailed travel advice will be provided later.) Selected participants will be supported financially by AMETEC. Expressions of interest, including the candidate’s brief *curriculum vitae* and a short description of his/her job responsibilities, should be sent to:

Dr. N. Kannan

Chair, AMETEC Steering Committee

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Closing date for submissions: 31 July 2008

