



14th National Congress of the Australian Institute of Physics

Adelaide University, South Australia:
December 10 — 15, 2000



**Driving Technology Through Discovery,
Understanding and Innovation**

INDIVIDUAL CONFERENCE PROGRAM

VERSION 2

(Excludes plenary sessions)

To find an author, or topic, select the
binoculars button

CONFERENCE ON UNIVERSITY PHYSICS EDUCATION (OZCUPE)

Monday, December 11, 2000

2:00 pm — 3:30 pm VENUE: MACBETH

- 2:00 pm Dr Elizabeth CHELKOWSKA University of Tasmania
600 *Improved outcomes in Physics service courses*
- 2:15 pm A/Prof Ian JOHNSTON The University of Sydney
601 *In search of a right way to teach Physics*
- 2:30 pm Dr Geoff SWAN Edith Cowan University
602 *Teaching learning skills and problem solving*
- 2:45 pm Ms Susan FETERIS Monash University
603 *Undergraduate Physics laboratories - Staff perceptions of purposes and outcomes*
- 3:00 pm A/Prof Trevor FINLAYSON Monash University
604 *A Professional studies unit for third year university students*
- 3:15 pm *Discussion of all papers presented at this session*

4:00 pm — 5:00 pm VENUE: MACBETH

- 4:00 pm Dr David LOW University College, UNSW
605 *Making air visible: Communicating ideas about the atmosphere*
- 4:15 pm Dr SOEGENG Institut Teknologi Bandung
606 *Simulation of the electromagnetic wave propagation in a rectangular waveguide*
- 4:30 pm Dr Michelle LIVETT University of Melbourne
607 *A web-based learning environment designed for interactive learning*

**5:00 pm — 5:30 pm OZCUPE POSTER SESSION
VENUE: GAMES, LEVEL 5**

- MT 001** Mrs Suzanne HOGG University of Technology, Sydney
TAAcT reviewed and revisited
- MT 002** A/Prof Roger LEWIS University of Wollongong
Project-based learning in a WebCT environment
- MT 003** Dr David LOW University College, UNSW
Approaches to Flexible Delivery in Physics
- MT 004** Dr Judith POLLARD Adelaide University
POSTER: Have Syllabus changes improved understanding in mechanics?
- MT 005** Ms Manjula SHARMA University of Sydney
An investigation of student understanding of gravity
- MT 006** Ms Kate WILSON University of Sydney
Development of cooperative-learning thematic workshop tutorials

Tuesday, December 12, 2000

11:00 am — 12:30 pm CONFERENCE ON UNIVERSITY PHYSICS EDUCATION (OZCUPE)

Tuesday, December 12, 2000

11:00 am — 12:30 pm VENUE: MACBETH

- 11:00 am Mrs Anna - Eugenia BINNIE Macquarie University
608 *The NSW HSC Physics syllabus and its implications for first year university Physics*
- 11:15 am Mr Peter FLETCHER University of Sydney
609 *How tertiary level Physics and Chemistry students learn to conceptualise quantum mechanics*
- 11:30 am Mr Ian SEFTON University of Sydney
610 *Tracing two common misconceptions about energy*
- 11:45 am *Discussion of all papers presented at this session*
- 12:00 pm *Physics Education Group Annual General Meeting*

2:00 pm — 3:30 pm VENUE: BRAGG

- 2:00 pm Ms Manjula SHARMA University of Sydney
611 *Easily Adaptable Thematic Physics Workshops*
- 3:00 pm Dr Judith POLLARD Adelaide University
612 *Providing choices in learning experiences for large classes - beyond Studio Physics*
- 3:15 pm *Discussion of all papers presented at this session*

4:00 pm — 5:30 pm VENUE: MACBETH

- 4:00 pm Dr John M LONG Deakin University
613 *Internet control of a fluid mechanics practical for distance education students*
- 4:15 pm Dr David MILLS Monash University
614 *Physics – concepts and simulations – effectiveness of a flexible learning software package*
- 4:30 pm Mr Anton RAYNER The University of Queensland
615 *Advantages of flexible delivery for introductory physics*
- 4:45 pm Mrs Suzanne HOGG University of Technology, Sydney
616 *Print, Publish or Program?*
- 5:00 pm Mr Pablo ANON University of Technology, Sydney
617 *Flexible learning and intellectual property*
- 5:15 pm *Discussion of all papers presented at this session*