

## 14th National Congress of the Australian Institute of Physics

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

INDIVIDUAL CONFERENCE PROGRAM VERSION 2 (Excludes plenary sessions)



Driving Technology Through Discovery, Understanding and Innovation To find an author, or topic, select the binoculars button

## MEDICAL PHYSICS (MP)

11:00 am       — 12:30 pm       VENUE: NORTH DINING       Chairperson: Eva Bezak         11:00 am       Mr Jeremy BOOTH Royal Adelaide Hospital       500         500       The effect of variable fractional doses on rectum complications         11:20 am       Dr Plamen Ch. IVANOV Boston University         501       Fractal and multifractal approaches to human heartbeat dynamics         11:40 am       Mr Guilin LIU Department of Medical Physics, Royal Adelaide Hospital         502       Linear accelerator mechanical radiation ISO centre assessment with an EP         12:00 pm       Dr Gil VELLA University of Sydney         503       The effect of arterial perfusion on the measured ultrasound induced heating in a fetal skull bone phantom         12:20 pm       Dr Michael JACKSON Royal Prince Alfred Hospital         504       Australian National Proton Facility         2:00 pm       - 3:30 pm       VENUE: NORTH DINING         Chairperson: Gill Vella       Comparisions of two ferrous-sulphate gels for high image reconstruction using an optical scanning system         505       Comparisions of two ferrous-sulphate gels for high image reconstruction using an optical scanning system         506       Cosmic radiation dosimetry of Australian iar crew and passengers using superheated bubble dosimeter and miniature PIN diode detector         2:40 pm       Dr lan MACLEAN Australian Communications Authority       507	Thursday, December 14, 2000	
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4:20 pm _ 5:30 pm POSTEP SESSION	510	
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VENUE: GAMES, LEVEL 5	-	VENUE: GAMES, LEVEL 5
TF 156 Dr Aidan BYRNE Australian National University	TF 156	Dr Aidan BYRNE Australian National University
Production of Terbium-149,152 by heavy ion reactions		Production of Terbium-149,152 by heavy ion reactions
TF 157 Dr Aidan BYRNE Australian National University	TF 157	-
A versatile composite material for fast neutron shielding		
<b>TF 158</b> Mrs Loredana MARCU University of Adelaide Fractionation and delivery schedules in combined radiotherapy-cisplatin for head and neck cancer	TF 158	

## Thursday, December 14, 2000

## 4:20 pm — 5:30 pm MEDICAL PHYSICS (MP) POSTER SESSION

**TF 159** Mr Bayu PURNOMO University of South Australia The evaluation of bioeffect treatment planning using neural network analysis