

Summary programme : twenty-ninth congress of the International Union of Physiological Sciences : Sydney, Australia : 28 August to 3 September 1983 : final version.

Contributors

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GENERAL INFORMATION

CONGRESS CENTRE:

The centre of congress facilities is The Roundhouse, (Map ref. E6), which is located near the Anzac Parade entrance to the University of New South Wales. The following services are available there:

REGISTRATION:

The registration centre is on the ground floor and will be open from Saturday 27th August to Saturday 3rd September.
Hours: 0830 to 1730

Upon completion of registration formalities, registrants will receive the Congress satchel which will contain their programme and abstract book and a separate envelope containing their tickets to functions and name badge.

Name Badges:

ONLY REGISTRANTS WEARING NAME BADGES WILL BE ADMITTED TO CONGRESS SOCIAL FUNCTIONS AND SCIENTIFIC SESSIONS. THEY MUST ALSO PRESENT A TICKET TO GAIN ADMISSION TO THE OPENING CEREMONY, THE WELCOME RECEPTION AND THE CONGRESS RECEPTION.

CONGRESS OFFICES:

These are located in the Roundhouse. All services located in this area are available from 0830 to 1730 hours.

Information Centre: Ground floor

Academy of Science Office: Ground floor

Travel Information Office: Ground floor

I.U.P.S. Council Office: First floor

Press Office: First floor

Programme and Organizing Committee Offices: First floor

CONGRESS SOCIAL PROGRAMME

Opening Ceremony - Sunday 28th August

The Opening Ceremony and the Plenary Lecture will take place in the Concert Hall of the Sydney Opera House at 1500. The Governor General of Australia, His Excellency the Right Honourable Sir Ninian Stephen, A.K., G.C.M.G., G.C.V.O., K.B.E., K.St.J., will officially open the Congress and the Plenary Lecture will be given by Professor P.O. Bishop, entitled "Terra Australis incognita: the emergence of physiology in Australia". Delegates are asked to be seated by 1445. The Opening Ceremony will conclude at about 1700.

The bars situated in the Opera House Foyers will be open from 1400.

Admittance by Ticket and Congress Name Badge

Welcome to Sydney Reception - Sunday 28th August.

The Welcome Reception will commence at 1815 in Dixon Street, Sydney's Chinatown, within easy walking distance of the downtown hotels. If the weather is suitable the evening will commence with a street party followed at 1845 by a Chinese dinner at the restaurant indicated on your ticket. If the weather is inclement only the dinner will take place. Buses will be available to supplement public transport for those staying at the University of New South Wales and Prince Henry Hospital. The buses will depart at approximately 2030 and 2130.

Admittance by Ticket and Congress Name Badge

Congress Concert - Monday 29th August.

The Congress Concert will be held in the Concert Hall, Sydney Opera House, where the Sydney Symphony Orchestra will perform a specially selected programme under the direction of Sir Charles Mackerras. The Concert will commence at 2000. If you have not already booked enquire at the information desk as tickets may still be available.

Admittance by Ticket

Congress Reception - Thursday 1st September.

This will be held at the Sydney Town Hall, George Street, Sydney and will take the form of an informal buffet dinner. The function will commence at 1900 and conclude at 2300.

Admittance by Ticket and Congress Name Badge

Closing Ceremony - Saturday 3rd September.

The Closing Ceremony will be held in the Clancy Auditorium, University of New South Wales at 1000 concluding at about 1200. The Plenary Lecture entitled "Hopping Mad" will be given by Professor Roger Short.

Sightseeing Tours

Tickets are available for all tours. For a detailed brochure, information and purchase of tickets, please see the information desk.

TRANSPORT:

ALL TRANSPORT DURING THE CONGRESS IS THE DELEGATE'S OWN RESPONSIBILITY.

A separate leaflet has been prepared giving details of public transport facilities. If you have not already received a copy, pick one up at the information centre.

USEFUL TELEPHONE NUMBERS:

Radio Taxis	339 0488, 2 0918
General ferry and hydrofoil services	27 9251, 219 4158
Train service enquiries	2 0942
Bus service enquiries	2 0543
Emergency, police, ambulance, fire brigade	000



SUMMARY PROGRAMME

TWENTY-NINTH CONGRESS OF THE INTERNATIONAL UNION OF PHYSIOLOGICAL SCIENCES

Sydney, Australia
28 August to 3 September
1983

FINAL VERSION

MONDAY MORNING 29 AUGUST 1983

Chemistry Theatre	110 Integration of intestinal and pancreatic function <i>W. Creutzfeldt</i> (Chairman), <i>J. Hansky</i> (Co-Chairman), <i>L.-J. Larsson</i> , <i>T.E. Solomon</i> , <i>S.J. Konturek</i> , <i>R.H. Dowling</i> , <i>J.C. Brown</i> , <i>W. Creutzfeldt</i>	
Central Lecture Block 8	111 Role of afferents in motor control <i>U. Proske</i> (Chairman), <i>A. Prochazka</i> (Co-Chairman), <i>R. Banks</i> , <i>I.A. Boyd</i> , <i>C.C. Hunt</i> , <i>L. Jami</i> , <i>W.Z. Rymer</i> , <i>A. Prochazka</i> , <i>D.J. Burke</i> , <i>K.-E. Hagbarth</i> , <i>W.T. Thach</i>	
Mathews Theatre B	112 Pathophysiology of large arteries <i>J.H. Campbell</i> (Chairman), <i>G.R. Campbell</i> (Co-Chairman), <i>S. Moore</i> , <i>W.A. Seed</i> , <i>R.G. Gerrity</i> , <i>D.F. Bohr</i> , <i>M.J. Mulvany</i> , <i>T.A. McCalden</i> , <i>G.R. Campbell</i>	
Applied Science Theatre	113 Comparative physiology of hearing: The peripheral apparatus <i>R. Klinke</i> (Chairman), <i>B.M. Johnstone</i> (Co-Chairman), <i>B.M. Johnstone</i> , <i>R.R. Capranica</i> , <i>R. Klinke</i> , <i>E.F. Evans</i> , <i>O.W. Henson, Jr.</i> , <i>A. Michelsen</i>	
Central Lecture Block 6	114 PERINATAL EVENTS: Life before birth <i>A.M. Rudolph</i> (Chairman), <i>J.E. Maloney</i> (Co-Chairman), <i>E.R. Lumbert</i> , <i>A.M. Rudolph</i> , <i>J.E. Maloney</i> , <i>G.D. Thorburn</i> , <i>N.R. Saunders</i>	
0900 0915 1000 1015 1200 1300		
Mathews Theatre A		115 Adaptation to heat <i>J. Bligh</i> (Chairman), <i>J.R.S. Hales</i> (Co-Chairman), <i>J. Bligh</i> , <i>E. Simon</i> , <i>V.A. Finch</i> , <i>A. Shkolnik</i> , <i>T. Nakayama</i> , <i>E.R. Nadel</i> , <i>M.A. Baker</i> , <i>J.R.S. Hales</i>
Science Theatre	106 Hyperthermia as a limit to exercise <i>C. Jøsson</i>	116 Neurotransmission receptor mechanisms <i>J.P. Changeux</i> (Chairman), <i>D.R. Curtis</i> (Co-Chairman), <i>D. Colquhoun</i> , <i>J.-P. Changeux</i> , <i>W. Trautwein</i> , <i>R.N. McBurney</i> , <i>J.C. Watkins</i>
Clancy Auditorium	107 Supraspinal structures involved in nociception and pain <i>J.M. Besson</i>	117 Pain <i>W.D. Willis</i> (Chairman), <i>A.W. Duggan</i> (Co-Chairman), <i>M. Zimmermann</i> , <i>R.F. Schmidt</i> , <i>E.R. Perl</i> , <i>A. Iggo</i> , <i>W.D. Willis</i>
Keith Burrows Theatre	108 Hormone-like peptides in unicellular organisms: implications for vertebrate biology <i>D. Le Roith</i>	118 Hormone receptor modulation/post receptor events <i>P. de Meyts</i> (Chairman), <i>L. Harrison</i> (Co-Chairman), <i>K.J. Catt</i> , <i>G.G. Rousseau</i> , <i>P. de Meyts</i> , <i>L.C. Harrison</i>
Central Lecture Block 7	109 Mechanisms coupling the absorption of solutes and water in the proximal nephron <i>J.A. Schafer</i>	119 Metabolism and hormonal control of individual nephron segment transport function <i>F. Morel</i> (Chairman), <i>B.J. Morris</i> (Co-Chairman), <i>W.G. Guder</i> , <i>R.S. Balaban</i> , <i>M. Imbert-Teboul</i> , <i>C. de Rouffignac</i> , <i>M. Imai</i> , <i>D. Marver</i>
Goldstein College	120 Autonomic nervous system in man 121 Transduction and coding in perception 122 DEVELOPMENTAL NEUROBIOLOGY: The origin of neurons 123 Central organization of cardiovascular and respiratory pathways 124 Circadian oscillator mechanisms	
Bio-Medical Theatres	135 Ion-coupled membrane transport processes 136 REPRODUCTION: Differentiation / Speciation / Evolution 137 Clinical renal physiology 138 Cardiac excitation and contraction 139 RESPIRATION: Physiology of exercise: metabolic aspects	
Clancy Auditorium Foyer	140 Teaching of Physiology Posters	
Bio-Medical Theatre D	141 Films	

Invited Lectures Symposia Posters

MONDAY AFTERNOON 29 AUGUST 1983

Chemistry Theatre		160 Clinical renal physiology <i>J.A. Whitworth</i> (Chairman), <i>O.M. Wrong</i> (Co-Chairman), <i>O.M. Wrong</i> , <i>L.J. Barratt</i> , <i>G.H. Giebisch</i> , <i>A.Z. Györy</i> , <i>R. Ardailiou</i> , <i>L. Share</i> , <i>T.O. Morgan</i> , <i>R. Jamison</i>	
Central Lecture Block 8		161 REPRODUCTION: Differentiation / Speciation / Evolution <i>R.V. Short</i> (Chairman), <i>C.H. Tyndale-Biscoe</i> (Co-Chairman), <i>K.W. Jones</i> , <i>W.M.</i> <i>Brown</i> , <i>H.D. Niall</i> , <i>C.H. Tyndale-Biscoe</i>	
Mathews Theatre B		162 RESPIRATION: Physiology of exercise; metabolic aspects <i>C.R. Taylor</i> (Chairman), <i>A.J. Woolcock</i> (Co-Chairman), <i>C.R. Taylor</i> , <i>E.R. Weibel</i> , <i>G.A. Cavagna</i> , <i>G. Goldspink</i>	
Applied Science Theatre		163 Circadian oscillator mechanisms <i>D.S. Saunders</i> (Chairman), <i>G.J. Coleman</i> (Co-Chairman), <i>D.S. Saunders</i> , <i>R.D.</i> <i>Lewis</i> , <i>H.G. Schweiger</i> , <i>B.M. Sweeney</i> , <i>J.F. Feldman</i>	
Central Lecture Block 6		164 Ion-coupled membrane transport processes <i>K.J. Ullrich</i> (Chairman), <i>S.L. Skinner</i> (Co-Chairman), <i>K.J. Ullrich</i> , <i>U. Hopfer</i> , <i>E.M. Wright</i> , <i>H. Murer</i> , <i>K.J. Ullrich</i> , <i>J.B. Pritchard</i> , <i>R. Greger</i> , <i>G.H.</i> <i>Giebisch</i>	
1330		1415 1430 1445	1700 1730
Mathews Theatre A		165 DEVELOPMENTAL NEUROBIOLOGY: The origin of neurons <i>M. Jacobson</i> (Chairman), <i>J. Stone</i> (Co-Chairman), <i>M. Jacobson</i> , <i>C.S. Goodman</i> , <i>K.</i> <i>Herrup</i> , <i>J.A. Campos-Ortega</i>	
Science Theatre	156 The role of outer hair cells in cochlear function <i>Peter Dallos</i>	166 Transduction and coding in perception <i>T.D. Lamb</i> (Chairman), <i>A.K. McIntyre</i> (Co-Chairman), <i>D.A. Baylor</i> , <i>H.B. Barlow</i> , <i>A.J. Hudspeth</i> , <i>K.O. Johnson</i> , <i>T.D. Lamb</i>	
Clancy Auditorium	157 Emergence of neuronal and glial cell lineages in primate brain <i>P. Rakic</i>	167 Cardiac excitation and contraction <i>H. Irisawa</i> (Chairman), <i>J.B. Chapman</i> (Co-Chairman), <i>T. Powell</i> , <i>G. Isenberg</i> , <i>H.</i> <i>Reuter</i> , <i>R.W. Tsien</i> , <i>W. Trautwein</i> , <i>E. Carmeliet</i> , <i>E.F. Shibata</i> , <i>A. Noma</i>	
Keith Burrows Theatre	158 Guidelines for the evolution of hemoglobin function <i>C. Bauer</i>	168 Central organization of cardiovascular and respiratory pathways <i>K.M. Spyer</i> (Chairman), <i>E.K. Bystrzycka</i> (Co-Chairman), <i>D.W. Richter</i> , <i>T.A.</i> <i>Sears</i> , <i>G.L. Gebber</i> , <i>C. Polosa</i> , <i>K.M. Spyer</i>	
Central Lecture Block 7	159 Interneuronal organization in reflex pathways from proprioceptors <i>E. Jankowska</i>	169 Autonomic nervous system in man <i>J. Ludbrook</i> (Chairman), <i>L.B. Rowell</i> (Co-Chairman), <i>B.G. Wallin</i> , <i>M.D. Eaker</i> , <i>D.L. Eckberg</i> , <i>G. Mancia</i> , <i>L.B. Rowell</i>	
Goldstein College	170 PERINATAL EVENTS: Life before birth 171 Role of afferents in motor control 172 Neurotransmission receptor mechanisms 173 Pathophysiology of large arteries 174 Integration of intestinal and pancreatic function		
Bio-Medical Theatres	185 Hormone receptor modulation/post receptor events 186 Comparative physiology of hearing: The peripheral apparatus 187 Adaptation to heat 188 Pain		
Clancy Auditorium Foyer	140 Teaching of Physiology Posters		
Bio-Medical Theatre D	141 Films		

Invited Lectures Symposia Posters

TUESDAY MORNING 30 AUGUST 1983

Chemistry Theatre	210 Capillary transport <i>C. Crone</i> (Chairman), <i>P. Lingard</i> (Co-Chairman), <i>C. Crone</i> , <i>F.F. Vargas</i> , <i>A.E. Taylor</i> , <i>K.-E. Arfors</i> , <i>M.A. Perry</i> , <i>F.E. Curry</i> , <i>E.M. Renkin</i> , <i>G.J. Grega</i> , <i>L. Bass</i> , <i>N. Granger</i>	
Central Lecture Block 8	211 Organization of movements at spinal and brainstem levels <i>M.L. Shik</i> (Chairman), <i>D.J. Burke</i> (Co-Chairman), <i>R.E. Burke</i> , <i>A. Lundberg</i> , <i>V.J. Wilson</i> , <i>N. Tsukahara</i>	
Mathews Theatre B	212 Control of fluid intake <i>D.J. Ramsay</i> (Chairman), <i>M.J. McKinley</i> (Co-Chairman), <i>D.J. Ramsay</i> , <i>A.K. Johnson</i> , <i>M.J. McKinley</i> , <i>E. Szczepañska-Sadowska</i> , <i>E.M. Stricker</i> , <i>D.J. Ramsay</i> , <i>S. Kaufman</i> , <i>T.N. Thrasher</i>	
Applied Science Theatre	213 Cardiac arrhythmia <i>E. Coraboeuf</i> (Chairman), <i>A.M. Tonkin</i> (Co-Chairman), <i>B.G. Katzung</i> , <i>M. Hiraoka</i> , <i>H.G. Glitsch</i> , <i>M. Lieberman</i> , <i>E. Coraboeuf</i> , <i>E. Carmeliet</i> , <i>R.W. Tslen</i>	
Central Lecture Block 6	214 PERINATAL EVENTS: Birth - the transition <i>G.M. Liggins</i> (Chairman), <i>E.M. Wintour</i> (Co-Chairman), <i>A.D. Care</i> , <i>J.R.G. Challis</i> , <i>D.J. Henderson-Smith</i> , <i>M.D. Mitchell</i> , <i>J.A. Kitterman</i>	
0900 0915 1000 1015 1200 1300		
Mathews Theatre A		215 Food and starvation in animals and man <i>Y. Le Maho</i> (Chairman), <i>T.J. Dawson</i> (Co-Chairman), <i>Y. Le Maho</i> , <i>R.E. Keesey</i> , <i>M.J. Stock</i> , <i>D.P. Costa</i> , <i>Y. Le Maho</i> , <i>R.A. Nelson</i>
Science Theatre	206 Transmission in the squid giant synapse: a double voltage clamp approach <i>R. Llinás</i>	216 Secretion of neurotransmitters <i>M.P. Blaustein</i> (Chairman), <i>E. McLachlan</i> (Co-Chairman), <i>M.P. Blaustein</i> , <i>P.F. Baker</i> , <i>J. Dudel</i> , <i>T.S. Reese</i> , <i>A. Marty</i> , <i>C.R. House</i> , <i>K. Magleby</i> , <i>A.R. Martin</i> , <i>M. Pecot-Dechavassine</i> , <i>R. Rahamimoff</i> , <i>A. Stuart</i> , <i>J. Zengel</i> , <i>R. Zucker</i>
Clancy Auditorium	207 The challenge of the environment: physiological strategies for survival <i>K. Schmidt-Nielsen</i>	217 Mechanisms of ion permeation through channels <i>B. Hille</i> (Chairman), <i>P.H. Barry</i> (Co-Chairman), <i>B. Hille</i> , <i>T.B.egenisch</i> , <i>P. Läuger</i> , <i>R.G. Simons</i> , <i>P.H. Barry</i> , <i>B. Hille</i>
Keith Burrows Theatre	208 Studies on the chemistry and physiology of hypothalamic CRF and GRF <i>W. Vale</i>	218 Neuropeptides and opioid peptides <i>J.W. Funder</i> (Chairman), <i>W. Vale</i> (Co-Chairman), <i>P. Brazeau</i> , <i>I.W. Chubb</i> , <i>B. Livett</i> , <i>P.J. Lowry</i>
Central Lecture Block 7	209 Transport mechanisms in epithelial cell membranes <i>E. Frömter</i>	219 Regulation of cell volume and cell electrolyte composition <i>A.D.C. MacKnight</i> (Chairman), <i>J.S. Wiley</i> (Co-Chairman), <i>J.P. Leader</i> , <i>K.R. Spring</i> , <i>A. Leaf</i> , <i>E.K. Hoffmann</i> , <i>G.D.V. van Rossum</i>
Goldstein College	220 Parallel processing of sensory information 221 DEVELOPMENTAL NEUROBIOLOGY: The growth of axons to targets 222 Chemical factors in cardiorespiratory control 223 Central neural regulation of circadian pacemakers 224 Interaction of cerebral interstitial fluid with brain function and blood flow	
Bio-Medical Theatres	235 Expression of transepithelial transport on cellular structure, metabolism and ionic composition 236 REPRODUCTION: Local regulation of gonadal function 237 Excitation-contraction coupling 238 Clinical neurophysiology	
Clancy Auditorium Foyer	140 Teaching of Physiology Posters	
Bio-Medical Theatre D	141 Films	

Invited Lectures Symposia Posters

TUESDAY AFTERNOON 30 AUGUST 1983

Chemistry Theatre	260 Clinical neurophysiology <i>J.W. Lance</i> (Chairman), <i>J.E. Desmedt</i> (Co-Chairman), <i>K.-E. Hagbarth</i> , <i>J.E. Desmedt</i> , <i>A.M. Halliday</i> , <i>F.L. Mastaglia</i> , <i>P.F. Bladin</i> , <i>N.A. Lassen</i> , <i>J.E. Desmedt</i>	
Central Lecture Block 8	261 REPRODUCTION: Local regulation of gonadal function <i>D.M. de Kretser</i> (Chairman), <i>D.T. Baird</i> (Co-Chairman), <i>K.P. McNatty</i> , <i>A. Tsafiri</i> , <i>B.P. Setchell</i> , <i>D.M. de Kretser</i>	
Mathews Theatre B	262 RESPIRATION: Oxygen radicals <i>A.P. Autor</i> (Chairman), <i>G. McLennan</i> (Co-Chairman), <i>A.P. Autor</i> , <i>G. McLennan</i> , <i>J.C. Fantone</i> , <i>M.C.M. Viissers</i> , <i>W.H. Betts</i>	
Applied Science Theatre	263 Central neural regulation of circadian pacemakers <i>H. Kawamura</i> (Chairman), <i>R.F. Seemerk</i> (Co-Chairman), <i>R.Y. Moore</i> , <i>H. Kawamura</i> , <i>Y. Oomura</i> , <i>S.M. Armstrong</i> , <i>M. Menaker</i>	
Central Lecture Block 6	264 Expression of transepithelial transport on cellular structure, metabolism and ionic composition <i>W.McD. Armstrong</i> (Chairman), <i>T.O. Morgan</i> (Co-Chairman), <i>R. Rick</i> , <i>R.S. Balaban</i> , <i>W.McD. Armstrong</i> , <i>K.L. Kirk</i>	
1330 1415 1430 1445 1700 1730		
Mathews Theatre A		265 DEVELOPMENTAL NEUROBIOLOGY: The growth of axons to targets <i>R.V. Stirling</i> (Chairman), <i>L.D. Beazley</i> (Co-Chairman), <i>D. Bentley</i> , <i>M. Singer</i> , <i>C.M. Bate</i> , <i>C.S. Goodman</i> , <i>M. Fujisawa</i>
Science Theatre	256 Clustered intrinsic connections in cat visual cortex <i>T.N. Wiesel</i>	266 Parallel processing of sensory information <i>M.M. Merzenich</i> (Chairman), <i>B. Dreher</i> (Co-Chairman), <i>N. Suga</i> , <i>R.W. Dykes</i> , <i>M.P. Stryker</i> , <i>B. Dreher</i> , <i>M.M. Merzenich</i>
Clancy Auditorium	257 Optical measurements of myoplasmic Ca ⁺⁺ during contractile activation in skeletal muscle fibers <i>W.K. Chandler</i>	267 Excitation-contraction coupling <i>W.K. Chandler</i> (Chairman), <i>A.F. Dulhunty</i> (Co-Chairman), <i>J.L. Vergara</i> , <i>M.F. Schneider</i> , <i>S.M. Baylor</i> , <i>S. Ebashi</i> , <i>J.D. Potter</i> , <i>A. Weber</i>
Keith Burrows Theatre	258 Arterial chemoreceptor reflex and primary hypertension <i>A. Trzebski</i>	268 Chemical factors in cardiorespiratory control <i>J.C.G. Coleridge</i> (Chairman), <i>R.A.L. Dampney</i> (Co-Chairman), <i>J.C.G. Coleridge</i> , <i>C. Eyzaguirre</i> , <i>S. Lahiri</i> , <i>J.C.G. Coleridge</i> , <i>H.M. Coleridge</i> , <i>M.P. Kaufman</i> , <i>G. Recordati</i> , <i>R.A.L. Dampney</i>
Central Lecture Block 7	259 Neurochemical and hormonal factors in the genesis of salt appetite <i>D.A. Denton</i>	269 Interaction of cerebral interstitial fluid with brain function and blood flow <i>D.A. Denton</i> (Chairman), <i>J.R. Pappenheimer</i> (Co-Chairman), <i>K. Olsson</i> , <i>H. Kazami</i> , <i>H.D. Lux</i> , <i>G.G. Somjen</i> , <i>H. Martins-Ferreira</i>
Goldstein College	270 PERINATAL EVENTS: Birth - the transition 271 Organization of movements at spinal and brainstem levels 272 Secretion of neurotransmitters 273 Control of fluid intake 274 Capillary transport	
Bio-Medical Theatres	285 Food and starvation in animals and man 286 Cardiac arrhythmia 287 Neuropeptides and opioid peptides 288 Regulation of cell volume and cell electrolyte composition	
Clancy Auditorium Foyer	140 Teaching of Physiology Posters	
Bio-Medical Theatre D	141 Films	

Invited Lectures Symposia Posters

WEDNESDAY MORNING 31 AUGUST 1983

Chemistry Theatre	310 Metabolic aspects of endothelial function <i>D. Shepro</i> (Chairman), <i>B.R. McAuslan</i> (Co-Chairman), <i>H.B. Hechtman</i> , <i>H. Sage</i> , <i>B.R. Zetter</i> , <i>B.R. McAuslan</i> , <i>D. Shepro</i> , <i>J.L. Gordon</i>	
Central Lecture Block 8	311 Cortical involvement in movement <i>E.E. Fetz</i> (Chairman), <i>J. Brinkman</i> (Co-Chairman), <i>P.D. Cheney</i> , <i>R.B. Muir</i> , <i>E.V.</i> <i>Evarts</i> , <i>R. Porter</i> , <i>M. Wiesendanger</i> , <i>J. Tanji</i> , <i>J. Brinkman</i> , <i>E. Fetz</i>	
Mathews Theatre B	312 Control of mineral and food intake <i>S. Nicolafdis</i> (Chairman), <i>G. Singer</i> (Co-Chairman), <i>A.N. Epstein</i> , <i>K.N. Sharma</i> , <i>R.D. Myers</i> , <i>D. Porte Jr.</i> , <i>E.T. Rolts</i> , <i>S. Nicolafdis</i>	
Applied Science Theatre	313 THE LUNG: Intrapulmonary gas flow <i>L. Engel</i> (Chairman), <i>A.C. Bryan</i> (Co-Chairman), <i>H.K. Chang</i> , <i>A.S. Slutsky</i> , <i>M.</i> <i>Paiva</i> , <i>M.P. Hlastala</i> , <i>P. Scheid</i>	
Central Lecture Block 6	314 Cardiac mechanics <i>G. Elzinga</i> (Chairman), <i>C. Gibbs</i> (Co-Chairman), <i>G. Elzinga</i> , <i>H.E.D.J. ter Kours</i> , <i>H. Suga</i> , <i>H. Piene</i> , <i>P.J. Hunter</i> , <i>G. Elzinga</i>	
0900 0915 1000 1015 1200 1300		
Mathews Theatre A		315 Gravitational physiology <i>H. Bjurstedt</i> (Chairman), <i>D.C. Sandeman</i> (Co-Chairman), <i>J.H. Palmer</i> , <i>D.C.</i> <i>Sandeman</i> , <i>E.H. Wood</i> , <i>J.M. Horowitz</i> , <i>W.A. Calder III</i> , <i>E.B. Shulzhenko</i>
Science Theatre	306 Intensity and localization of cortical activity in man during sensory discrimination directed attention and thinking <i>P.E. Roland</i>	316 Integrative action of single neurones <i>K. Krnjević</i> (Chairman), <i>S. Redman</i> (Co-Chairman), <i>K. Krnjević</i> , <i>W. Rall</i> , <i>R.</i> <i>Ulinás</i> , <i>K. Krnjević</i> , <i>A. Shapovalov</i> , <i>B. Walmsley</i> , <i>S. Redman</i>
Clancy Auditorium	307 Calcium fluxes through membranes <i>P.G. Kostyuk</i>	317 Mechanisms of gating ion channels <i>P.G. Kostyuk</i> (Chairman), <i>D. van Helden</i> (Co-Chairman), <i>C.M. Armstrong</i> , <i>P.G.</i> <i>Kostyuk</i> , <i>P.W. Gage</i> , <i>B. Neumcke</i>
Keith Burrows Theatre	308 Physiological implications of recombinant DNA studies in endocrinology <i>J.D. Baxter</i>	318 Molecular localization in hormone secretion and action <i>J.P. Coghlan</i> (Chairman), <i>T. Hökfelt</i> (Co-Chairman), <i>T. Hökfelt</i> , <i>M. Costa</i> , <i>W.E.</i> <i>Stumpf</i> , <i>J. Schlessinger</i> , <i>J.P. Coghlan</i>
Central Lecture Block 7	309 Stimulus secretion coupling <i>N.A. Thorn</i>	319 Vascular components of renal function <i>K. Thurau</i> (Chairman), <i>A.Z. Györy</i> (Co-Chairman), <i>K. Thurau</i> , <i>C.W. Gottschalk</i> , <i>G.B. Ryan</i> , <i>C. Baylis</i> , <i>D.A. Häberle</i> , <i>A.Z. Györy</i> , <i>F.A.O. Mendelsohn</i> , <i>A.</i> <i>Gillies</i> , <i>J. Schneermann</i> , <i>J.M. Davis</i> , <i>L.G. Navar</i>
Goldstein College	320 Sensory convergence and perception 321 DEVELOPMENTAL NEUROBIOLOGY: Neuron growth factors 322 Mechanoreceptor mechanisms in cardiorespiratory control 323 Regulation of circadian sleep-wake and body-temperature cycles 324 PERIPHERAL AUTONOMIC NERVES: Neuropeptides	
Bio-Medical Theatres	335 RESPIRATION: Anaerobic and aerobic metabolism of vertebrates and invertebrates 336 Ion-translocating ATPases 337 REPRODUCTION: Fertilization and post-conception events 338 Contraction theories 339 Clinical Physiology of hypertension	
Clancy Auditorium Foyer	140 Teaching of Physiology Posters	
Bio-Medical Theatre D	141 Films	

Invited Lectures Symposia Posters

WEDNESDAY AFTERNOON 31 AUGUST 1983

Chemistry Theatre		360 Clinical Physiology of hypertension J.P. Chalmers (Chairman), C.T. Dollery (Co-Chairman), B. Folkow, F.M. Abboud, A.C. Barger, A.E. Doyle, C.T. Dollery	
Central Lecture Block 8		361 REPRODUCTION: Fertilization and post-conception events R.B. Heap (Chairman), J.K. Findley (Co-Chairman), R.B. Heap, T.K. Roberts, A. Trounson, D.W. Bullock, T.G. Kennedy	
Mathews Theatre B		362 RESPIRATION: Anaerobic and aerobic metabolism of vertebrates and invertebrates A.F. Bennett (Chairman), J. Baldwin (Co-Chairman), C.R. Taylor, A.F. Bennett, J. Baldwin, J.M. Shick, P.W. Hochachka	
Applied Science Theatre		363 Regulation of circadian sleep-wake and body-temperature cycles M.C. Moore-Ede (Chairman), S.M. Armstrong (Co-Chairman), J. Zulley, N. Ibuka, M.C. Moore-Ede, J.R. Pappenheimer, P. Gander	
Central Lecture Block 6		364 Ion-translocating ATPases J.C. Skou (Chairman), J.B. Chapman (Co-Chairman), C.W. Slayman, A.N. Martonosi, J.C. Skou, S.L. Bonting	
1330		1415	1430 1445 1700 1730
Mathews Theatre A		365 DEVELOPMENTAL NEUROBIOLOGY: Neuron growth factors H. Thoenen (Chairman), I.A. Hendry (Co-Chairman), H. Thoenen, E.M. Shooter, D. Edgar, I.A. Hendry, H. Thoenen	
Science Theatre	356 The functional organization of somatosensory cortex J.H. Kass	366 Sensory convergence and perception C.G. Gross (Chairman), L.M. Aitkin (Co-Chairman), V. Henn, D.R.F. Irvine, L.M. Aitkin, G. Rizzolatti, C.G. Gross	
Clancy Auditorium	357 The Fenn effect and theories of muscle contraction A.F. Huxley	367 Contraction theories A.F. Huxley (Chairman), C.G. dos Remedios (Co-Chairman), C. dos Remedios, V.V. Lednev, W.F. Harrington, A.J. Rowe, A.F. Huxley	
Keith Burrows Theatre	358 The barrier to fluid and macromolecules at the capillary wall C.C. Michel	368 Mechanoreceptor mechanisms in cardiorespiratory control A.S. Paintal (Chairman), B.S. Nail (Co-Chairman), R.J. Linden, J.O. Arendt, J.P. Gilmore, D. Trenchard, N.J.W. Russell, A.S. Paintal	
Central Lecture Block 7	359 Neurophysiology and consciousness T. Desiraju	369 PERIPHERAL AUTONOMIC NERVES: Neuropeptides G.J. Dockray (Chairman), J.B. Furness (Co-Chairman), G.J. Dockray, T.J. McDonald, F. Sandler, A.V. Edwards, R.A. North, J.M. Lundberg, J.B. Furness	
Goldstein College	370 Cortical involvement in movement 371 Integrative action of single neurones 372 Control of mineral and food intake 373 THE LUNG: Intrapulmonary gas flow		
Bio-Medical Theatres	385 Mechanisms of ion permeation through channels 386 Gravitational physiology 387 Molecular localization in hormone secretion and action 388 Vascular components of renal function 389 Cardiac mechanics		
Clancy Auditorium Foyer	140	Teaching of Physiology Posters	
Bio-Medical Theatre D	141	Films	

Invited Lectures Symposia Posters

THURSDAY MORNING 1 SEPTEMBER 1983

Chemistry Theatre	410 Construction and testing of models of CNS action <i>J.D. Cowan</i> (Chairman), <i>W.R. Levick</i> (Co-Chairman), <i>H. Tuckwell</i> , <i>M.A. Arbib</i> , <i>H.B. Barlow</i> , <i>J.D. Cowan</i>	
Central Lecture Block 8	411 Programming and coordination of movements <i>M. Ito</i> (Chairman), <i>J.W. Lance</i> (Co-Chairman), <i>O. Oscarsson</i> , <i>A.M. Graybiel</i> , <i>Y.I. Arshavsky</i> , <i>W.T. Thach</i> , <i>L. Rispal-Padell</i> , <i>K. Sasaki</i>	
Mathews Theatre B	412 Comparative aspects of nutritional physiology <i>C.E. Stevens</i> (Chairman), <i>D.A. Titcher</i> (Co-Chairman), <i>A. Shkolnik</i> , <i>H. Tamate</i> , <i>I.D. Hume</i> , <i>W.L. Grovum</i> , <i>J.C. MacRae</i> , <i>J.L. Corbett</i>	
Applied Science Theatre	413 Bioactive substances in the lung <i>Y.S. Bakhle</i> (Chairman), <i>G.J. Dusting</i> (Co-Chairman), <i>Y.S. Bakhle</i> , <i>U.S. Ryan</i> , <i>J.W. Ryan</i> , <i>R.J. Gryglewski</i> , <i>J.P. Seale</i> , <i>Y.S. Bakhle</i>	
Central Lecture Block 6	414 H^+/HCO_3^- transport <i>H. Murer</i> (Chairman), <i>D. Stiel</i> (Co-Chairman), <i>H. Murer</i> , <i>G. Malnic</i> , <i>H. Murer</i> , <i>F. Kili</i> , <i>R.C. Thomas</i> , <i>J. Gutknecht</i>	
0900 0915 1000 1015 1200 1300		
Mathews Theatre A	415 Pressure and diving <i>H.A. Saltzman</i> (Chairman), <i>S.W. White</i> (Co-Chairman), <i>H.A. Saltzman</i> , <i>A.G. Macdonald</i> , <i>G.L. Kooyman</i> , <i>R.W. Brauer</i> , <i>B. D'Aoust</i> , <i>J.B. West</i>	
Science Theatre	406 Localization of functional activity in the nervous system by metabolic probes <i>Louis Sokoloff</i>	416 Mechanisms involved in relating flow to function in different regions <i>P.M. Vanhoutte</i> (Chairman), <i>W.P. Anderson</i> (Co-Chairman), <i>P.M. Vanhoutte</i> , <i>E. Bassenge</i> , <i>G. Burnstock</i> , <i>S. Mellander</i> , <i>H.V. Sparks</i> , <i>W.P. Anderson</i>
Clancy Auditorium	407 High resolution current measurements on ionic channels in membranes <i>E. Neher</i>	417 Single channels and noise analysis <i>E. Neher</i> (Chairman), <i>P.W. Gage</i> (Co-Chairman), <i>D. Colquhoun</i> , <i>N. Quartararo</i> , <i>O.P. Hamill</i> , <i>A. Marty</i> , <i>K.L. Magleby</i>
Keith Burrows Theatre	408 The reproductive endocrinology of <i>Amphioxus</i> <i>Z.Y. Zhang</i>	418 Insulin <i>D.J. Chisholm</i> (Chairman), <i>R. Bergman</i> (Co-Chairman), <i>R. Bergman</i> , <i>R. Larkins</i> , <i>B.E. Kemp</i> , <i>R. Bergman</i> , <i>E.W. Kraegen</i> , <i>D.J. Chisholm</i>
Central Lecture Block 7	409 Parietal cell function <i>G. Sachs</i>	419 Vasopressin and the urinary concentrating mechanism <i>H. Valtin</i> (Chairman), <i>J.R. Blair-West</i> (Co-Chairman), <i>H. Valtin</i> , <i>C. de Rouffignac</i> , <i>W.G. North</i> , <i>J.J. Dreifuss</i> , <i>G. Leng</i> , <i>J.F. Morris</i> , <i>D. Schlondorff</i> , <i>J. Bourguet</i> , <i>R.M. Hays</i> , <i>V. Pliska</i> , <i>W.H. Sawyer</i> , <i>R.L. Jamison</i>
Goldstein College	420 Perception of body orientation 421 DEVELOPMENTAL NEUROBIOLOGY: Development of the postsynaptic membrane 422 Effector mechanisms and interactions in cardiovascular and respiratory responses 423 Learning and memory 424 PERIPHERAL AUTONOMIC NERVES: Autonomic neuroeffector transmission	
Bio-Medical Theatres	435 Fluid-transporting epithelia 436 Clinical physiology of the heart 437 Myosin 438 Central control of reproduction	
Clancy Auditorium Foyer	140 Teaching of Physiology Posters	
Bio-Medical Theatre D	141 Films	

Invited Lectures Symposia Posters

THURSDAY AFTERNOON 1 SEPTEMBER 1983

Chemistry Theatre	460 Clinical physiology of the heart <i>D.T. Kelly</i> (Chairman), <i>J.H. Mitchell</i> (Co-Chairman), <i>R.A. O'Rourke</i> , <i>D.T. Kelly</i> , <i>J.N. Cohn</i> , <i>P.J. Harris</i> , <i>A.M. Tonkin</i>	
Central Lecture Block 8	461 Central control of reproduction <i>E. Knobil</i> (Chairman), <i>E. Keogh</i> (Co-Chairman), <i>E. Knobil</i> , <i>P.C. Goldsmith</i> , <i>L.-M. Kow</i> , <i>L. Wildt</i> , <i>I.J. Clarke</i>	
Mathews Theatre B		
Applied Science Theatre	463 Learning and memory <i>R. Mark</i> (Chairman), <i>G.A. Bell</i> (Co-Chairman), <i>R. Mark</i> , <i>K. Ng</i> , <i>F. Nottebohm</i> , <i>R.F. Thompson</i> , <i>N. Tsukahara</i> , <i>R.D. Hawkins</i>	
Central Lecture Block 6	464 Fluid-transporting epithelia <i>J.A. Young</i> (Chairman), <i>I. Schulz</i> (Co-Chairman), <i>J.A. Young</i> , <i>O.H. Petersen</i> , <i>R.M. Case</i> , <i>K. Heintze</i> , <i>I. Schulz</i> , <i>W.A. Brodsky</i>	
	1330	1415 1430 1445 1700 1730
Mathews Theatre A		465 DEVELOPMENTAL NEUROBIOLOGY: Development of the postsynaptic membrane <i>U.J. McMahon</i> (Chairman), <i>M.R. Bennett</i> (Co-Chairman), <i>C.R. Slater</i> , <i>U.J. McMahon</i> , <i>M.W. Cohen</i> , <i>Z.W. Hall</i>
Science Theatre	456 Neuronal mechanisms and functional roles of the cerebellum <i>M. Ito</i>	466 Perception of body orientation <i>G. Melvill Jones</i> (Chairman), <i>P.O. Bishop</i> (Co-Chairman), <i>P.O. Bishop</i> , <i>L.M. Nashner</i> , <i>J.I. Simpson</i> , <i>G. Melvill Jones</i>
Clancy Auditorium	457 The actions of the two muscles of the diaphragm <i>P.T. Macklem</i>	467 Myosin <i>D.J. Hartshorne</i> (Chairman), <i>J.F.Y. Hoh</i> (Co-Chairman), <i>M. Elzinga</i> , <i>A.J. Rowe</i> , <i>D.J. Hartshorne</i> , <i>M. Bárány</i> , <i>J.F.Y. Hoh</i> , <i>S. Winegrad</i> , <i>A.W. Everett</i> , <i>J. Lännergren</i>
Keith Burrows Theatre	458 The role of endothelial cells in the relaxation of blood vessels by acetylcholine and other endogenous vasodilators <i>R.F. Furchgott</i>	468 Effector mechanisms and interactions in cardiovascular and respiratory responses <i>J.D. Sinclair</i> (Chairman), <i>C. Bell</i> (Co-Chairman), <i>J.D. Sinclair</i> , <i>J.T. Shepherd</i> , <i>C. Borst</i> , <i>B. Duron</i> , <i>E.K. Potter</i> , <i>F.L. Eldridge</i>
Central Lecture Block 7	459 Synaptic transmission in autonomic ganglia: molecular and neuronal mechanisms <i>V.I. Skok</i>	469 PERIPHERAL AUTONOMIC NERVES: Autonomic neuroeffector transmission <i>M.E. Holman</i> (Chairman), <i>G. Burnstock</i> (Co-Chairman), <i>M.E. Holman</i> , <i>G.D.S. Hirst</i> , <i>R.A.R. Bywater</i> , <i>H. Kuriyama</i> , <i>C.R. House</i> , <i>G. Burnstock</i>
Goldstein College	470 Programming and coordination of movements 471 Bioactive substances in the lung 472 Mechanisms involved in relating flow to function in different regions 473 Comparative aspects of nutritional physiology	
Bio-Medical Theatres	485 Pressure and diving 486 Single channels and noise analysis 487 Construction and testing of models of CNS action 488 Insulin 489 Vasopressin and the urinary concentrating mechanism 495 H^+/HCO_3^- transport	
Clancy Auditorium Foyer	140 Teaching of Physiology Posters	
Bio-Medical Theatre D	141 Films	

Invited Lectures Symposia Posters

FRIDAY MORNING 2 SEPTEMBER 1983

Chemistry Theatre	510 Comparative physiology of vertebrate and invertebrate vision <i>S. Laughlin</i> (Chairman), <i>M.F. Land</i> (Co-Chairman), <i>M.F. Land</i> , <i>A. Hughes</i> , <i>S. Laughlin</i> , <i>H. Eckert</i> , <i>D.C. Burr</i> , <i>H.B. Barlow</i>	
Central Lecture Block 8	511 Motor performance and skill <i>R. Porter</i> (Chairman), <i>To be advised</i> (Co-Chairman), <i>T.A. Sears</i> , <i>S.C. Gandevia</i> , <i>M.C. Wozel</i> , <i>G. Melvill Jones</i> , <i>J.M. Hollerbach</i>	
Mathews Theatre B	512 Ecological influences on energy, protein and water turnover <i>D. Robertshaw</i> (Chairman), <i>V.A. Finch</i> (Co-Chairman), <i>M. van Kampen</i> , <i>G. Pethes</i> , <i>A.A. Rérat</i> , <i>S. Benlamlil</i> , <i>M.E. Webster</i>	
Applied Science Theatre	513 Lung fluids and pulmonary oedema <i>N.C. Staub</i> (Chairman), <i>J.R. Casley-Smith</i> (Co-Chairman), <i>A.B. Malik</i> , <i>K. Brigham</i> , <i>A.E. Taylor</i> , <i>L. Oppenheimer</i> , <i>S. Nitta</i> , <i>J.C. Hogg</i>	
Central Lecture Block 6		
0900 0915 1000 1015 1200 1300		
Mathews Theatre A		515 Reproductive adaptation to environment <i>G.B. Sharman</i> (Chairman), <i>J.P. Hearn</i> (Co-Chairman), <i>G.B. Sharman</i> , <i>M.B. Rantree</i> , <i>P. Parker</i> , <i>R.I. Cox</i> , <i>T.B. Post</i> , <i>J.P. Hearn</i>
Science Theatre	506 Experimental studies on the acquisition of an immunological identity <i>B. Morris</i>	516 Local mechanisms controlling blood flow <i>E. Haber</i> (Chairman), <i>E.R. Lumbers</i> (Co-Chairman), <i>E. Haber</i> , <i>M. Manning</i> , <i>O. Carretero</i> , <i>G.J. Dusting</i> , <i>J.D. Laird</i> , <i>E. Hackenthal</i> , <i>E.R. Lumbers</i>
Clancy Auditorium	507 Contractile mechanism of single isolated smooth muscle cells <i>F.S. Fay</i>	517 New gated channels <i>D. Noble</i> (Chairman), <i>T.O. Neild</i> (Co-Chairman), <i>D. DiFrancesco</i> , <i>D. Attwell</i> , <i>P.R. Adams</i> , <i>H. Reuter</i> , <i>K.S. Lee</i>
Keith Burrows Theatre	508 Polypeptide growth factors: hormonal regulators of cell development and viability <i>R.A. Bradshaw</i>	518 Growth factors/inhibitors <i>R.A. Bradshaw</i> (Chairman), <i>A.C. Herington</i> (Co-Chairman), <i>R.A. Bradshaw</i> , <i>J. Schlessinger</i> , <i>M.D. Hollenberg</i> , <i>T.F. Deuel</i> , <i>M.J. Waters</i>
Central Lecture Block 7	509 Renal aspects of potassium homeostasis <i>G.H. Giebisch</i>	519 Tubular handling of organic substances <i>S. Silbernagl</i> (Chairman), <i>J.M. Lingard</i> (Co-Chairman), <i>W.H. Dantzer</i> , <i>N.P. Curthoys</i> , <i>D. Barfuss</i> , <i>E.C. Foulkes</i> , <i>J.M. Lingard</i> , <i>S. Silbernagl</i> , <i>F. Lang</i> , <i>H. Murer</i>
Goldstein College	520 Neocortex and perception 521 DEVELOPMENTAL NEUROBIOLOGY: Neurogenic determination of cell properties 522 Behavioural aspects of cardiorespiratory control 523 PERIPHERAL AUTONOMIC NERVES: Autonomic control of gastrointestinal function	
Bio-Medical Theatres	535 Barriers in transepithelial and transcellular transport 536 Platelet functions 537 Motivational state control	
Clancy Auditorium Foyer	140	Teaching of Physiology Posters
Bio-Medical Theatre D	141	Films

Invited Lectures Symposia Posters

FRIDAY AFTERNOON 2 SEPTEMBER 1983

Chemistry Theatre		560 Regulation of human fertility <i>B. Hudson</i> (Chairman), <i>M.-C. Orgebin-Crist</i> (Co-Chairman), <i>D.T. Baird</i> , <i>A. Lopata</i> , <i>H.W.G. Baker</i> , <i>M.-C. Orgebin-Crist</i> , <i>R.V. Short</i>	
Central Lecture Block 8			
Mathews Theatre B		562 Platelet functions <i>B. Firkie</i> (Chairman), <i>G.V.R. Born</i> (Co-Chairman), <i>S.L. Pfeiffer</i> , <i>J. Koultis</i> , <i>J.L. Gordon</i> , <i>N.G. Ardile</i> , <i>G.V.R. Born</i>	
Applied Science Theatre		563 Motivational state control <i>P. Karli</i> (Chairman), <i>R. Bandler</i> (Co-Chairman), <i>P. Karli</i> , <i>F. Bellisle</i> , <i>J.M. Koolhaas</i> , <i>P. Teitelbaum</i> , <i>E.T. Rolls</i> , <i>P. Schmitt</i> , <i>P. Karli</i>	
Central Lecture Block 6		564 Barriers in transepithelial and transcellular transport <i>E.M. Wright</i> (Chairman), <i>P.H. Barry</i> (Co-Chairman), <i>E.M. Wright</i> , <i>K.R. Spring</i> , <i>D. Erlij</i> , <i>P.H. Barry</i> , <i>J.S. Handler</i>	
	1330	1415 1430 1445	1700 1730
Mathews Theatre A		565 DEVELOPMENTAL NEUROBIOLOGY: Neurogenic determination of cell properties <i>D.M. Fambrough</i> (Chairman), <i>I.W. Chubb</i> (Co-Chairman), <i>M.J. Anderson</i> , <i>A.D. Grinnell</i> , <i>J. Cohen</i> , <i>D.M. Fambrough</i>	
Science Theatre	556 Colour Vision <i>S. Zeki</i>	566 Neocortex and perception <i>I. Darian-Smith</i> (Chairman), <i>E.V. Everts</i> (Co-Chairman), <i>I.A. Shevelev</i> , <i>E.V. Everts</i> , <i>I. Darian-Smith</i> , <i>J.J. Kulikowski</i> , <i>L.B. Geffen</i>	
Clancy Auditorium	557 Proprioception and control of movement in man <i>D.I. McCloskey</i>	567 Smooth muscle and non-muscle contractility <i>A.P. Somlyo</i> (Chairman), <i>M.P. Sparrow</i> (Co-Chairman), <i>A.P. Somlyo</i> , <i>D. Hartshorne</i> , <i>R.A. Murphy</i> , <i>J. Sanger</i>	
Keith Burrows Theatre	558 Interaction between functional and structural elements in blood pressure regulation <i>B. Folkow</i>	568 Behavioural aspects of cardiorespiratory control <i>A. Zanchetti</i> (Chairman), <i>C. Sullivan</i> (Co-Chairman), <i>M. de Burgh Daly</i> , <i>O.A. Smith</i> , <i>S.M. Hilton</i> , <i>L.B. Rowell</i> , <i>A. Zanchetti</i>	
Central Lecture Block 7	559 Gastrointestinal motility - Electrophysiological data <i>M. Papasova</i>	569 PERIPHERAL AUTONOMIC NERVES: Autonomic control of gastrointestinal function <i>R.A. North</i> (Chairman), <i>M. Costa</i> (Co-Chairman), <i>R.A. North</i> , <i>G.S. Taylor</i> , <i>J.B. Furness</i> , <i>J.D. Wood</i> , <i>E.E. Daniel</i> , <i>D.L. Wingate</i> , <i>M. Costa</i>	
Goldstein College	570 Motor performance and skill 571 Lung fluids and pulmonary oedema 572 Local mechanisms controlling blood flow		
Bio-Medical Theatres	585 Adaptation to heat 586 Growth factors/inhibitors 587 Mechanisms of gating ion channels 588 New gated channels 589 Metabolism and hormonal control of individual nephron segment transport function 595 Tubular handling of organic substances 596 Comparative physiology of vertebrate and invertebrate vision		
Clancy Auditorium Foyer	140 Teaching of Physiology Posters		
Bio-Medical Theatre D	141 Films		

Invited Lectures Symposia Posters

USEFUL INFORMATION:

REFRESHMENTS:

Coffee Breaks: Free coffee and tea will be available for limited times in the mid morning and the mid afternoon in the foyers of the following lecture theatres - Biomed Theatre, Clancy Auditorium, Central Lecture Block and Science Theatre. Coffee and tea can be purchased at other times from the outlets listed below.

The following food services are available on the lower campus in or near the Roundhouse:

Roundhouse Cafeteria (Map ref. E6): Ground floor, Roundhouse. Seating for 250 persons (open 0730 - 1800) serving breakfasts, hot meals (roasts, stews); snack meals (fish, chips, pies, chicken); salads; sandwiches; cakes; coffee and tea and cold drinks, wine and beer.

Asian Bar and Barbeque (Map ref. E6): Ground floor, Roundhouse. Seating for 250 persons (open 1200 - 1400) serving cafeteria-style Asian dishes; cook your own indoor Barbeque - steaks, sausages, steak sandwiches; coffee, tea and cold drinks, wine and beer.

Fernery (Map ref. E6): First level, Roundhouse. Seating for 60 persons (open 1200 - 1400) a la carte menu, wine and beer.

Squarehouse Bar/Coffee Lounge (Map ref. E4): Adjacent to Roundhouse. First floor. Lounge area with balcony seating 350 persons. Beer, wine and spirits available from 1200 - 2000; coffee bar service 1130 - 1400; coffee, tea and cold drinks, sandwiches, cakes, hot roast meat sandwiches.

Blockhouse Salad Daze (Map ref. G6): Adjacent to Roundhouse. 1st floor. Health food restaurant seating 200 persons (open 1000 - 1500) self-serve cafeteria style. Serving sandwiches, salads, hot vegetarian foods, coffee, tea and cold drinks.

Food service areas located on upper campus are:

Morven Brown Building Tuck Shop (Map ref. D20): take-away only, serving sandwiches, cakes, pies, cold drinks. (Open 0800 - 1500).

Esmer Coffee Lounge, Morven Brown Building (Map ref. D20): seating 50 persons. (Open 1000 - 1500) Espresso coffee, cakes, sandwiches, crepes.

Commerce Courtyard Blue Room (Map ref. E20): Seating 150 indoors and 150 outdoors. (open 1000 - 1800). Serving barbecued chicken, hamburgers, coffee, tea and cold drinks, wine and beer.

Mathews Building Cafeteria (Map ref. E23): Seating 200 persons (open 0730 - 1800). Cafeteria-style serving breakfasts, sandwiches, cakes, pies, hot meals, salads, coffee, tea and cold drinks.

Plaza Milk Bar (Map ref. E25): Seating 70 persons (open 1000 - 1600). Serving milkshakes, ice-creams, hot drinks, lunchtime sandwiches, cakes, hot roast meat sandwiches.

See campus map for all above locations.

A restaurant guide has been prepared for registrants listing restaurants conveniently located either to the University of New South Wales or to the hotels and colleges where the majority of registrants will be staying. The guide indicates the cuisine and approximate cost of a meal at selected restaurants and will be found in your satchel.

HOSPITALITY AREA:

Throughout the Congress, a hospitality area is available for registrants from 0830 - 1730 on the ground floor of the Roundhouse. This is an ideal place to meet friends. Free coffee will be available.

MESSAGES AND MAIL:

Boards will be located on the ground floor of the Roundhouse near the Information Centre.

HOW TO CONTACT OTHER CONGRESS MEMBERS:

1. Are they registered? Consult a computer printout of names of registered members in the Registration area.
2. Have they arrived? Check if their personal envelope has been picked up from the Registration area.
3. Making contact - leave a message on the message board. Check the board for messages for yourself.

GROUP AND SECTIONAL MEETINGS AND FUNCTIONS:

Information concerning these will be displayed on a special notice board in the Registration area.

LARGE ARTICLE COLLECTION AREA:

Large envelopes and parcels that arrive for registrants will be kept at the Information Centre and will be handed to owners on request. A message indicating that a parcel has arrived will be left on the message board.

CONGRESS BULLETIN:

Bulletins will be prepared and widely distributed during the Congress. These bulletins aim to keep members informed of special events of the day, announcements, changes in programme, tours and excursions, lost and found articles and any other items needing publicity. If you wish an item to be considered for inclusion please leave material at the Congress Organizing Committee office by 1400 on the day prior to publication.

CHANGES TO SCIENTIFIC PROGRAMME:

Will be announced on a special notice board in the Registration area, in the daily Congress Bulletin and in lecture theatres before each session.

TRADE DISPLAY

There will be a trade display of scientific and technical equipment and of books and journals on the ground floor of the Square House (Map ref. E4) adjacent to the Roundhouse.

Hours: 0900 - 1700 Monday 29th August to Thursday 1st September.

POSTAL SERVICES:

A Post Office will be located in the Congress Shop, ground floor of the Roundhouse from 1000 - 1600, Monday to Friday.

TELEPHONES:

The Congress telephone number is (02) 662.3848. Public telephones are available on the ground floor of the Roundhouse. Overseas calls may be arranged through the Information Centre.

SLIDE VIEWING ROOM:

Authors are invited to use the following rooms to view and sort their slides

Biomed theatre E

Central Lecture Block Theatre 1.

These rooms will be available each day except at Poster Discussion Times (1145 to 1230 and 1615 to 1700). Authors are reminded that the slides to illustrate their papers should be handed to the projectionist in their assigned theatre at least 20 minutes prior to the start of the session in which they appear. Slides should be clearly labelled with the presenting author's family name and numbered and must be collected at the end of each session. The Congress cannot be responsible for storage or the loss of slides.

PARKING:

Some car parking will be available on the campus at the University of New South Wales. There is a multi-storied carpark which can be reached by entering any of the gates. This parking is free of charge.

ACCOMMODATION:

Please enquire at the Registration Desk, ground level, Roundhouse.

SHOPPING:

A special on-site Australian shop has been arranged. This shop will stock the very best in Australian crafts and souvenirs at reasonable prices. A range of special congress merchandise will also be available. It is located on the Ground Floor of the Roundhouse.

CONGRESS AUSTRALIANA SHOP/SOUVENIR SHOP:

A special on-site Australian shop has been arranged. This shop will stock the very best in Australian crafts and souvenirs at reasonable prices. A range of special congress merchandise will also be available. It is located on the Ground Floor of the Roundhouse.

MEDICAL FACILITIES:

The University of New South Wales Student Health Service (Map ref. E15) on campus provides emergency treatment between 0900 - 1300 and 1400 - 1700. Telephone 662.2677/662.2678/ 662.2679. Emergency treatment is also available at casualty at the Prince of Wales Hospital, which is close to the campus at the top of High Street.

ELECTRICITY SUPPLY:

Throughout Australia, mains electricity is supplied at 240V/50Hz AC. The Australian three-pin connecting plug is different from most other countries. Converters or transformers for 110V equipment are available at most of the major hotels, but are not available in student colleges.

TIPPING:

Tipping is generally not expected in hotels but waiters in restaurants are often given a tip of 10% of the total bill.

BANK, EXCHANGE OF CURRENCY, CREDIT CARDS:

Only the Australian Dollar is legal tender in Australia. City and suburban banks are generally open from 0930 to 1600, Monday to Thursday, 0930 to 1700 Friday, and some City Banks open from 0815 to 1800 Monday to Friday. Banks are closed on Saturday and Sunday. Banking and exchange facilities will be available at The State Bank and the Commonwealth Bank both of which have branches located on upper campus (Map ref. F22) and lower campus (Map ref. G6).

Commonwealth Bank Hours

0900 - 1700 Monday to Friday

State Bank Hours

0830 - 1730 Saturday 27 August, Sunday 28 August and Monday 29 August

0930 - 1600 Tuesday to Thursday

0930 - 1700 Friday

Closed Saturday and Sunday, 3-4 September

The most popular credit cards in Australia are American Express, Diners Club, Visa, Mastercard and the Australian Bankcard. These are accepted at many hotels, restaurants, shops and domestic airlines.