### Monday, December 11, 2000

**VENUE: CINEMA, LEVEL 5**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00 pm</td>
<td>Prof Peter DYSON La Trobe University</td>
<td>An overview of the Tasman International Geospace Environment Radar (TIGER)</td>
</tr>
<tr>
<td>2:18 pm</td>
<td>Dr Murray PARKINSON La Trobe University</td>
<td>HF digital ionosonde and TIGER backscatter radar observations of magnetospheric electric fields penetrating the southern-hemisphere mid-latitude ionosphere</td>
</tr>
<tr>
<td>2:36 pm</td>
<td>Dr Murray PARKINSON La Trobe University</td>
<td>Rates of occurrence of TIGER HF radar echo parameters sorted according season, the KP index and the interplanetary magnetic field at sunspot maximum</td>
</tr>
<tr>
<td>2:52 pm</td>
<td>Prof Peter DYSON La Trobe University</td>
<td>TIGER backscatter ionogram observations</td>
</tr>
<tr>
<td>3:10 pm</td>
<td>Dr Fred MENK University of Newcastle</td>
<td>TIGER HF radar observations of ULF waves near the plasmapause</td>
</tr>
</tbody>
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<tbody>
<tr>
<td>4:00 pm</td>
<td>Prof Brian FRASER University of Newcastle</td>
<td>Are electromagnetic ion cyclotron waves bouncing wave packets?</td>
</tr>
<tr>
<td>4:18 pm</td>
<td>Dr Pavlo PONOMARENKO University of Newcastle</td>
<td>Spatial integration and Pc5 ULF azimuthal wavenumbers observed on the ground</td>
</tr>
<tr>
<td>4:36 pm</td>
<td>Mr Paul MANUSIU University of Newcastle</td>
<td>Propagation characteristics of electromagnetic ion cyclotron waves propagating in the magnetosphere: CRRES Poynting Vector observations</td>
</tr>
<tr>
<td>4:54 pm</td>
<td>Mr Sean ABLES University of Newcastle</td>
<td>Transient ULF wave signatures at the cusp</td>
</tr>
<tr>
<td>5:12 pm</td>
<td>Mr Tim HOWARD University of Newcastle</td>
<td>Propagation of ULF (10 – 50 mHz) waves into the high latitude magnetosphere</td>
</tr>
</tbody>
</table>

### Tuesday, December 12, 2000

**VENUE: CINEMA, LEVEL 5**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00 am</td>
<td>Dr Dave NEUDEGG Rutherford-Appleton Lab</td>
<td>High-latitude geospace coupling: Preparing for Cluster II operations with Equator-S and SuperDARN observations</td>
</tr>
<tr>
<td>11:18 am</td>
<td>Dr Murray SCIFFER University of Newcastle</td>
<td>Mixed ULF wave modes and HF Doppler oscillations</td>
</tr>
<tr>
<td>11:36 am</td>
<td>Mr Phillip WEBB La Trobe University</td>
<td>Comparisons of the Global Plasmasphere Ionosphere Density (GPID) model to direct observations of the plasmasphere</td>
</tr>
<tr>
<td>11:54 am</td>
<td>Dr Robert GARDNER-GARDEN Defence Science and Technology Organisation</td>
<td>Real time modelling of ionospheric electron density (in the Australian region)</td>
</tr>
</tbody>
</table>
Tuesday, December 12, 2000
11:00 am — 12:30 pm SOLAR, TERRESTRIAL & SPACE PHYSICS (STSP)

12:12 pm Dr Chris COLEMAN Adelaide University

914 Feynman integration techniques applied to the analysis of radio wave propagation in the atmosphere and ionosphere

2:00 pm — 3:30 pm VENUE: CINEMA, LEVEL 5 Chairperson: Elizabeth Essex

2:00 pm Dr Richard M THOMAS DSTO

915 Equatorial scintillation on GPS links during 2000

2:18 pm Dr Manuel CERVERA DSTO

916 Observations of equatorial ionospheric radio-wave scintillation in South East Asia

2:36 pm Dr Lech HAJKOWICZ Queensland University

917 Simultaneous observations of ionospheric quasiperiodic scintillations from short and long meridional baselines using VHF transmissions from transit satellites

2:54 pm Dr Gordon BOWMAN University of Queensland

918 Similarities between equatorial and mid-latitude spread-F, as recorded by ionograms

4:00 pm — 5:30 pm STSP POSTER SESSION

VENUE: GAMES, LEVEL 5

MT 171 Dr Anthony BREED Australian Antarctic Division

Digisonde observation at Casey, Antarctica on the “Day the Solar Wind Almost Stopped”, May 10-12, 1999

MT 172 Dr Laurence CAMPBELL Adelaide University

Identification and analysis of meteor reflections

MT 173 Dr Russell CLARKE

A study of equatorial sporadic-E

MT 174 Dr Junhu DU IPS Radio and Space Services

A comparison between ISM measurements and TEC fluctuations in South East Asian regions

MT 175 A/Prof Geoffrey GOODWIN University of South Australia

Rainfall measurement using a piezo-electric technique suitable for weather stations

MT 176 Dr Hedley J HANSEN ESST Group

The remote sensing of objects using thermal signatures at millimetre wave frequencies (94 GHz)

MT 177 Mr Longsong HE La Trobe University

Geospace effects at Zhongshan sStation (L=13.9) during solar storms: Initial results

MT 178 Dr Didier MONSELESAN IPS Radio and Space Services

Digital ionosonde observations of E/F - Regions during intense lacuna conditions at polar cap latitude: Implications for drift velocity determination

MT 179 Dr Didier MONSELESAN IPS Radio and Space Services

Simultaneous observations of E and F region drift at Canberra and Camden, two mid-latitude stations

MT 180 Dr Phil WILKINSON IPS Radio & Space Services

A review of the space weather month, September 1999

Thursday, December 14, 2000

11:00 am — 12:30 pm VENUE: CINEMA, LEVEL 5 Chairperson: Trevor Harris

11:00 am Dr Stuart ANDERSON DSTO Salisbury

919 Radiowave signatures of dynamical processes in the ionosphere

11:18 am Dr Dan MEEHAN DSTO

920 Dealiassing range/doppler ambiguous HF ground backscatter

11:36 am Dr Didier MONSELESAN IPS Radio and Space Services

921 CADI and DPS ionospheric drift measurements at Casey Station, Antarctica

11:54 am Miss Larisa LINDSAY DSTO

922 Comparison of maximum-usable-frequencies obtained from oblique ionograms with those predicted by monthly median ionospheric models
Thursday, December 14, 2000
11:00 am — 12:30 pm SOLAR, TERRESTRIAL & SPACE PHYSICS (STSP)

12:12 pm Mr Brett NORTHEY DSTO
923 A comparison of DSTO and UK DERA background noise measurement systems with the CCIR noise model

2:00 pm — 3:30 pm PLASMA & SPACE JOINT SESSION
VENUE: CINEMA, LEVEL 5 Chairperson: Brian Fraser

2:00 pm Prof Peter ROBINSON University of Sydney
936 Stochastic growth of localized plasma waves

2:30 pm Prof Manfred HELLBERG University of Natal
937 Waves in plasmas with power-law distributions

2:45 pm Dr Murray SCIFFER University of Newcastle
938 One dimensional model for ULF wave propagation in the ionosphere

3:05 pm Mr Phillip WEBB La Trobe University
939 The Global Plasmasphere Ionosphere Density (GPID) model

4:00 pm — 5:30 pm VENUE: CINEMA, LEVEL 5 Chairperson: Ray Morris

4:00 pm Dr Fred MENK University of Newcastle
924 Mapping the plasmapause using ULF waves

4:18 pm Dr Anthony BREED Australian Antarctic Division
925 Polar patch studies above Casey, Antarctica

4:36 pm Prof Brian FRASER University of Newcastle
926 Pc3-5 ULF wave observations from a triangular network of closely spaced magnetometers near Davis Station, Antarctica

4:54 pm Dr Pavlo PONOMARENKO University of Newcastle
927 Spectral structure of Pc3 ULF wave energy at high latitudes

5:12 pm Mr Michael TERKILDSEN University of Newcastle
928 Southern hemisphere imaging riometer observations of impulsive transients in the high-latitude ionosphere

Friday, December 15, 2000

11:00 am — 12:30 pm VENUE: CINEMA, LEVEL 5 Chairperson: Phil Wilkinson

11:00 am Dr Ken LYNN Ionospheric Systems Research
929 Low latitude negative storm effects observed in the daytime ionospheric F2 region

11:18 am A/Prof Robert STENING University of NSW
930 The lunar tide in the equatorial ionospheric electric field

11:36 am Ms Frances PHILLIPS Australian Antarctic Division
931 Determining temperatures from the Hydroxyl (8-3) band

11:54 am Dr John INNIS Australian Antarctic Division
932 Thermospheric gravity waves in the southern polar cap

12:12 pm A/Prof Robert STENING University of NSW
933 Simulating the lunar geomagnetic variations

2:00 PM — 2:36 pm VENUE: CINEMA, LEVEL 5 Chairperson: Iain Reid

2:00 pm Dr Gary BURNS Australian Antarctic Division
934 Southern hemisphere noctilucent clouds

2:18 pm Mr John FRENCH Australian Antarctic Division
935 Seasonal and trend results from seven years of hydroxyl airglow rotational temperatures at Davis Station (68.68S, 78.08E), Antarctica