

Centre for Southern Hemisphere Oceans Research (CSHOR) Science Seminar

9.30 am to 3.45 pm, Thursday 16 May
2019, CSIRO Canteen Riverview Room
Castray Esplanade, Hobart

(Tea and coffee will be available from 9.15 am)

CSHOR is a collaborative research partnership between the Qingdao National Laboratory for Marine Science and Technology (QNLMT), China and CSIRO. The University of New South Wales and the University of Tasmania are also partners in CSHOR.

| Time | Topic | Presenter/s |
|-------|--|---|
| 09:30 | 1. Welcome and overview <ul style="list-style-type: none">a. Welcome to Countryb. Introduce CSHOR Steering Committee Members and guestsc. Safety briefing/housekeepingd. Director's update | Dr Wenju Cai (CSHOR Director, CSIRO) |
| | 2. Project Progress Reports | |
| 10:00 | Project 1: Understanding present and future dynamics of ENSO, the IOD, and their interactions with the southern hemisphere oceans <ul style="list-style-type: none">a. Introducing project staffb. Achievements and highlightsc. Outlook to 2019/20 | Drs Agus Santoso (UNSW/CSIRO), Guojian Wang and Benjamin Ng (CSIRO) |
| 10:30 | Project 2: Indo-Pacific interbasin exchange <ul style="list-style-type: none">a. Introducing project staffb. Achievements and highlightsc. Outlook to 2019/20 | Drs Bernadette Sloyan and Bea Peña-Molino (CSIRO) |
| 11:00 | MORNING TEA | |



| Time | Topic | Presenter/s |
|-------|--|---|
| 11:30 | <p>Project 3: Coupled warm pool dynamics in the Indo-Pacific</p> <ul style="list-style-type: none"> a. Introducing project staff b. Achievements and highlights c. Outlook to 2019/20 | Drs Ming Feng and Andy Hsu (CSIRO) |
| | 3. Guest Presenter | |
| 12:00 | <p>From Indulgence to Global Relevance: a fifty-year journey towards understanding the role of Antarctica in the climate system</p> <p>Dr Allison's presentation will be a largely personal recollection, based on his own experiences over 50 years, of how Antarctic research has transitioned from a subject of exploration and basic curiosity to one of critical significance for understanding Earth's climate system, its future changes and their global impacts. It will focus on the development of understanding of Antarctic sea ice and its interactions with the ocean and atmosphere; and on the ice sheet mass balance and global sea level. Significant progress in Antarctic climate science has been facilitated by international collaboration, the development of better access to the region and new technologies, particularly in computing power and in satellite remote sensing. These technological developments and collaborations will be briefly reviewed. He will close with some thoughts on how Antarctic climate-science might develop into the future, and what are the most important issues that should be addressed.</p> | Dr Ian Allison (Antarctic Climate and Ecosystems Cooperative Research Centre, Hobart, Australia) |
| 12:45 | LUNCH | |
| | 2. Project Progress Reports (Cont.) | |
| 13:45 | <p>Project 4: Southern Ocean dynamics, circulation and water mass formation</p> <ul style="list-style-type: none"> a. Introducing project staff b. Achievements and highlights c. Outlook to 2019/20 | Dr Annie Foppert (CSIRO) |
| 14:15 | <p>Project 5: Southern Ocean observations and change – Antarctic observations</p> <ul style="list-style-type: none"> a. Introducing project staff b. Achievements and highlights c. Outlook to 2019/20 | Dr Steve Rintoul (CSIRO) |
| 14:45 | <p>Project 6: The role of the Southern Ocean in sea level change</p> <ul style="list-style-type: none"> a. Introducing project staff b. Achievements and highlights c. Outlook to 2019/20 | Drs Xuebin Zhang and Kewei Lyu (CSIRO) |
| 15:15 | AFTERNOON TEA | |
| 15:45 | SEMINAR CLOSE | |