

KASC6 Meeting Programme

Sunday

Welcome reception and registration: 19:00 – 21:00

Monday

Welcome and Session 1: Setting the Scene (Chair: Tim Bedding)

08.00 – 08.45	Registration
08.45 – 09.00	Introductions
09.00 – 09.30	Hans Kjeldsen (Aarhus) [invited]: “KASC in the Extended Mission”
09.30 – 10.00	Jason Rowe (NASA Ames) [invited]: “Four years of <i>Kepler</i> photometry: a review of the <i>Kepler</i> extrasolar planet population and the impact of stellar evolution and structure”
10.00 – 10.30	Jeffrey Smith (SETI) [invited]: “The preservation of stellar signals in <i>Kepler</i> pipeline processed data”

Tea/coffee: 10.30 – 11.00

Session 2: Setting the Scenecontinued (Chair: Tim Bedding)

11.00 – 11.20	Martin Still (NASA Ames) [invited]: The <i>Kepler</i> GO program
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Session 2: Solar-type stars (Chair: Travis Metcalfe)

11.20 – 11.50	Dave Soderblom (STScI) [invited]: “Ages of solar-type stars”
11.50 – 12.20	Luca Casagrande (ANU) [invited]: “Estimating fundamental stellar parameters”
12.20 – 12.40	Günter Houdek (Aarhus): “A seismic age-calibration method for solar-type stars”
12.40 – 13.00	Tim White (Sydney): “The large separation and its scaling relation”

Lunch: 13.00 – 14.15

Session 3: Solar-type stars... continued (Chair: Travis Metcalfe)

14.15 – 14.45	Daniel Huber (NASA Ames [invited]: “Asteroseismology of <i>Kepler</i> exoplanet host stars”
14.45 – 15.05	Rasmus Handberg (Birmingham): “Asteroseismic analysis of <i>Kepler</i> Objects of Interest”
15.05 – 15.25	Tiago Campante (Birmingham): “Asteroseismic determination of the obliquities of candidate <i>Kepler</i> exoplanet-host stars”

Tea/coffee 15.25 – 16.00

Session 4: Solar-type stars... continued (Chair: Bill Chaplin)

16.00 – 16.30	Victor Silva Aguirre (Aarhus) [invited]: “Learning (new) and understanding (old) physics from the interiors of solar-type stars as revealed by <i>Kepler</i> ”
16.30 – 16.50	Ian Roxburgh (Queen Mary, London): “Non-linear inversion for the interior structure of KASC star HD177412A (aka Krazy)”
16.50 – 17.10	Othman Benomar (Sydney): “Constraining the internal structure of evolved solar-like stars by using mixed modes”
17.10 – 17.30	Jing Luan (Caltech): “Equipartition and beyond: what observational correlations tell us”
17.30 – 17.50	Vichi Antoci (Aarhus): “Superstar: every real story is a never ending story”

Young Astronomers Mixer: 19:00 – late

Tuesday

Session 5: Stellar Activity and Rotation (Chair: Don Kurtz)

08.30 – 09.00	Rafa Garcia (CEA, Saclay) [invited]: “Measuring stellar surface rotation rates with <i>Kepler</i> ”
09.00 – 09.30	Travis Metcalfe (Space Science Institute) [invited]: “Probing Stellar Magnetic Activity with <i>Kepler</i> ”
09.30 – 09.50	Jennifer van Saders (Ohio State): “Fast star, slow star; old star, young star: subgiant rotation as a population and stellar physics diagnostic”
09.50 – 10.10	Fabienne Bastien (Vanderbilt): “The evolution of Sun-Like stars, as revealed through <i>Kepler</i> light curves”

Tea/coffee 10.10 – 10.40

Session 6: Stellar Activity and Rotation... continued (Chair: Don Kurtz)

10.40 – 11.00	Joao Pedro Marques (Göttingen): “Comparing rotation braking laws with observations”
11.00 – 11.20	Savita Mathur (Space Science Institute): “Magnetic activity of F stars observed by <i>Kepler</i> ”
11.20 – 11.40	Stephane Mathis (CEA, Saclay): “Impact of rotation on the stochastic excitation of gravity and gravito-inertial waves in stars”

Session 6: Red giants (Chair: Jørgen Christensen-Dalsgaard)

11.40 – 12.10	Matteo Cantiello (KITP, Santa Barbara) [invited]: “Current challenges for modelling red giant stars”
12.10 – 12.30	Simon Campbell (Monash): “The Problems with core helium burning stellar models and how this affects asteroseismology”
12.30 – 12.50	Maria Lugaro (Monash): “The impact of core rotation on the production of the elements heavier than iron in asymptotic giant branch stars”

Lunch: 12.50 – 14.00

Session 7: Red giants... continued (Chair: Günter Houdek)

14.00 – 14.30	Dennis Stello (Sydney) [invited]: “Asteroseismology of red giants with <i>Kepler</i> ”
14.30 – 14.50	Thomas Kallinger (Vienna): “Testing seismic scaling relations”
14.50 – 15.10	Enrico Corsaro (Leuven): “A model selection of the best amplitude scaling relation for solar-like oscillations”
15.10 – 15.30	Sebastien Deheuvels (Observatoire Midi-Pyrénées): “Seismic constraints on the radial dependence of the internal rotation profiles of six young <i>Kepler</i> red giants.”
15.30 – 15.50	Tim Bedding (Sydney): “Solar-like oscillations in semiregular variable M giants”

Tea/coffee break: 15.50 – 16.20

Session 8: Poster Presentations (Chair: Dennis Stello)

16.20 – 16.50	1-minute poster presentations (max. 1 slide per presentation)
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Walk from Hotel to Sydney University: 17:15

Public Talk at Sydney University: 17:45 – 19:15

Wednesday

Session 9: Clusters and Binaries (Chair: Conny Aerts)

08.30 – 09.00	Andrej Prsa (Villanova) [invited]: “Eclipsing binaries: Swiss Knives of stellar astrophysics”
09.00 – 09.30	Karsten Brogaard (Aarhus) [invited]: “Exploiting the open clusters in the <i>Kepler</i> field”
09.30 – 10.00	Jim Fuller (Cornell) [invited]: “Tidal interactions and tidally excited oscillations”

Tea/coffee break: 10.00 – 10.30

Session 10: Clusters and Binaries... continued (Chair: Conny Aerts)

10.30 – 10.50	Kelly Hambleton (UCLan): “Heartbeat stars and tidally induced pulsations”
10.50 – 11.10	Françoise Remus (CEA, Saclay): “The fluid equilibrium tide in star-planet or binary star systems”
11.10 – 11.30	Orsola De Marco (Macquarie): “The post-common envelope binary fraction of central stars of planetary nebulae with <i>Kepler</i> ”
11.30 – 11.50	Patrick Gaulme (New Mexico State): “Testing asteroseismology with red giants in eclipsing binary and multiple-star systems”
11.50 – 12.10	Ruth Peterson (Astrophysical Advances) “Red Giants in the Old Open Cluster NGC 6791 as Seen by <i>Kepler</i> ”

Lunch: 12.10 – 13.00

13.00 Departure in front of Hotel for afternoon excursion to North Head

Astrophysical Pizza Night at Sydney Observatory (booking required): 18:20 – 20:00

Thursday

Session 11: Stellar Population Studies and Large Surveys (Chair: Sarbani Basu)

08.30 – 09.00	Ken Freeman (ANU) [invited]: “Stellar population studies and <i>Kepler</i> asteroseismology”
09.00 – 09.30	Jennifer Johnson (Ohio State) [invited]: “The APOGEE-KASC Catalog of seismic and spectroscopic properties”
09.30 – 09.50	Joss Bland-Hawthorn (Sydney): “Galaxia - a universal Galaxy stellar model and application to <i>Kepler</i> ”
09.50 – 10.10	Sanjib Sharma (Sydney): “Galaxia - a framework for interpreting <i>Kepler</i> observations”

Tea/coffee break: 10.10 – 10.40

Session 12: Stellar Population Studies and Large Surveys... continued (Chair: Sarbani Basu)

10.40 – 11.00	Robert Farmer (OU): “The true stellar parameters of the <i>Kepler</i> target list”
11.00 – 11.20	Courtney Epstein (Ohio State): “Asteroseismology and the Formation of the Galactic Halo”

Session 12: Compact stars (Chair: Steve Kawaler)

11.20 – 11.50	JJ Hermes (Texas) [invited]: “ <i>Kepler</i> Asteroseismology of White Dwarf Stars”
11.50 – 12.10	Aldo Serenelli (CSIC-IEEC): “Multi-periodic pulsations of a stripped red giant star in an eclipsing binary”
12.10 – 12.30	Stephane Charpinet (Observatoire Midi-Pyrénées): “On quasi-uniform g-mode period spacings observed with <i>Kepler</i> in hot B subdwarf stars and their interpretation”
12.30 – 12.50	Steven Bloemen (Leuven): “The blue edge of the g-mode instability strip for subdwarf B stars”

Lunch: 12.50 – 14.00

Session 13: Hot main sequence and RR Lyrae stars (Chair: Margarida Cunha)

14.00 – 14.30	Peter Paps (Leuven) [invited]: “ <i>Kepler</i> 's view of classical pulsators in the core-hydrogen burning phase”
14.30 – 15.00	Maryline Briquet (Liège) [invited]: “Tests of stellar interiors physics with classical pulsators”
15.00 – 15.20	Hiromoto Shibahashi (Tokyo): “Super-Nyquist asteroseismology”

Tea/coffee break: 15.20 – 15.50

Session 14: Hot main sequence and RR Lyrae stars... continued (Chair: Jaymie Matthews)

15.50 – 16.10	Conny Aerts (Leuven): “ <i>Kepler</i> ’s view on hot massive supergiant variability”
16.10 – 16.30	Coralie Neiner (Observatoire de Paris): “Interplay between magnetism and seismology in massive stars”
16.30 – 16.50	József Benkő (Konkoly): “The Blazhko effect on long time scales”
16.50 – 17.10	Laszlo Molnar (Konkoly): “RR Lyrae stars: beyond period doubling”
17:10 - 17:30	Matt Wood (Texas A&M): “Observations of Kepler Field Cataclysmic Variables”

18.15 Walk from hotel to Wharf for conference dinner

Harbour Cruise for Conference Dinner: 18:45 – 22:00

Friday

Session 15: Hot main sequence and RR Lyrae stars (Chair: Jaymie Matthews)

08.30 – 09.00	Simon Murphy (UCLan) [invited]: “Pulsations in A-F stars”
09.00 – 09.20	Luis Balona (SAAO): “Low frequencies and frequency/amplitude variations in <i>Kepler</i> roAp stars”
09.20 – 09.40	Margarida Cunha (Porto): “Do we really understand what drives the oscillations in roAp stars?”

Session 15: Closing session (Chair: Hans Kjeldsen)

09.40 – 10.10	Mike Ireland (Macquarie) [invited]: “The future of ground-based observations in the <i>Kepler</i> era”
10.10 – 10.30	Bill Chaplin (Birmingham): “SPACEINN: Exploitation of Space Data for Innovative Helio- and Asteroseismology”

Tea/coffee: 10.30 – 11.00

Session 16: Closing session... continued (Chair: Hans Kjeldsen)

11.00 – 11.10	Martin Still (NASA Ames) [invited]: The <i>Kepler</i> GO program – Reminder
11.10 – 11.40	George Ricker (MIT) [invited]: The Transiting Exoplanet Survey Satellite (TESS)
11.40 – 12.10	Laurent Gizon (Max Planck) [invited]: PLATO2.0
12.10 – 12.50	Marc Pinsonneault (Ohio State) [invited]: “Future challenges and opportunities with <i>Kepler</i> ”

Lunch: 12.50 –