

SUNDAY 2 <sup>nd</sup> SEPT.		
18:00	Registration and Icebreaker	
MONDAY SEPT. 3		
08:30	Registration	
09:00	Introductory address and opening of the meeting	
09:20	Tributes to Hiromoto Shibahashi (D. Gough, A. Noels, D. Kurtz)	
SESSION 1 : PHYSICS OF STELLAR PULSATIONS —		
Chair Marie-Jo Goupil		
10:05	Current problems in stellar pulsation theory	M.A. Dupret (R)
10:30	Tea/Coffee break	
11:00	Rotation effects on stellar pulsations	R.M. Ouazzani (R)
11:25	Oscillations of rapidly rotating stars: asymptotic theory	F. Lignières (R)
11:50	Poster presentation 1	
12:20	Lunch break	
14:30	R-mode oscillations ubiquitous in stars	H.Saio
14:50	Mode classification in fast-rotating stars using a machine learning algorithm	G. Mirouh
SESSION 2 : METHODS OF ASTEROSEISMOLOGY AND SELECTED OBJECTS		
Chair Hideyuki Saio		
15:10	The Sun: the benchmark star for asteroseismology of solar-like pulsating stars	R. Garcia (R)
15:35	Solar-like pulsations across the HR diagram	O. Benomar (R)
16:00	Asymptotic solar g modes: How we measured the rapid core rotation	E. Fossat
16:20	Gravity modes with Kepler data: the gift that keeps on giving	T. Bedding
16:40	Coffee break and POSTERS SESSION	
TUESDAY SEPT. 4		
08:30	Registration	
SESSION 2 : METHODS OF ASTEROSEISMOLOGY AND SELECTED OBJECTS		
Chair Joergen Christensen-Dalsgaard		
09:00	Super-Nyquist asteroseismology	H. Shibahashi (R)
09:25	Impact of magnetic fields on asteroseismology	S.T. Loi (R)
09:50	Can high angular degree non-radial pulsations be observed in roAp stars?	G. Mathys
10:10	RR Lyrae and Blazhko effect	Z. Kollath (R)
10:35	Tea/Coffee break	
Chair Conny Aerts		
11:00	First-overtone RR Lyrae stars - analysis of the Galactic bulge sample	H. Netzel
11:20	Seismology of subgiants and red giants: a powerful tool for stellar physics	S. Deheuvels (R)
11:45	Red Giant Asteroseismology in the Gaia Era	M. Pinsonneault
12:05	New pulsation physics from unusual red giant stars?	D. Stello
12:25	Lunch break	
Chair Peter de Cat		
14:30	Discontinuities in the core of red giant stars: effect on the mixed-mode pattern and how to measure it	M. Vrad
14:50	Asymptotic view of oscillations of red giant stars	M. Takata
15:10	Oscillation properties of High Luminosity Red Giants	J. Montalbán
15:30	The contribution of asteroseismology to a better understanding of helium core burning sdB stars	S. Charpinet (R)
15:55	PB8783 - a trailblazer for hot subdwarf asteroseismology in globular clusters	V. Van Grootel
16:15	Oscillation mode variability in pulsating hot B subdwarfs and white dwarfs	W. Zong
16:35	Tea/Coffee break and POSTERS SESSION	

## WEDNESDAY SEPT. 5

### Chair Arlette Grotsch Noël

09:00	Stellar Autopsies from White Dwarf Pulsations	J.J. Hermes (R)
09:25	Driving Pulsation Modes in Hot DA White Dwarfs	G. Fontaine
09:45	The mystery of GW Vir instability strip in the light of new observations of PG 1159 stars	P. Sowicka
10:05	Non-luminous sources of cooling in pulsating white dwarfs	A. Kim
10:25	Tea/Coffee break	

### SESSION 3 : STELLAR PHYSICS : MODELLING AND THEORY

### Chair Tim Bedding

11:00	Current problems in stellar evolution	G. Buldgen (R)
11:25	Coupling interior and atmospheric models	H.G. Ludwig (R)
11:50	Understanding mixing processes through asteroseismology	V. Antoci (R)
12:15	Poster presentation 2	
12:35	Lunch break	
Afternoon	Excursions	

## THURSDAY SEPT. 6

### SESSION 3 : STELLAR PHYSICS : MODELLING AND THEORY

### Chair Marc Pinsonneault

09:00	Constraints on convection and overshoot	C. Lovekin (R)
09:25	Calibration of the mixing length of the MLT and FST models using 3D hydrodynamical models	T. Sonoi
09:45	Anisotropic shear-driven turbulent transport in stellar radiative zones	S. Mathis
10:05	What have we learnt about B-type stars from their pulsations?	J. Daszynska-Daskiewicz (R)
10:30	Tea/Coffee break	

### Chair Masao Takata

11:00	On the photometric detection of internal gravity waves in massive stars.	D. Bowman
11:20	Atomic diffusion in G and F type stars and its impact on the asteroseismic determinations of stellar parameters	M. Deal (R)
11:45	Opacity Calculations for Stellar Astrophysics	J-C Pain (R)
12:10	The effect of atomic diffusion on gravity modes of young stars with a convective core	J. Mombarg
12:30	Lunch break	

### Chair Gerald Handler

14:30	Pulsating Stars in Binaries	S. Murphy (R)
14:55	Post-common-envelope binary stars: Radiative levitation and blue large-amplitude pulsators	C. Byrne
15:15	Tidal Asteroseismology of Heartbeat Binary Stars	Z. Guo
15:35	Damping rates and frequency corrections of Kepler LEGACY stars	G. Houdek
15:55	Tea/Coffee break and POSTERS SESSION	

## FRIDAY SEPT. 7

### SESSION 4 : TRANSDISCIPLINARITY : IMPORTANCE OF PRECISE STELLAR KNOWLEDGE

### Chair Sylvie Vauclair

09:00	On-going ground-based and space projects and perspectives	W.J. Chaplin (R)
09:25	Synergy between asteroseismology and exoplanet science: an outlook	T. Campante (R)
09:50	Planets and p-mode oscillations of a K-giant, HD 102103	A. Wolszczan
10:10	Asteroseismology and galactic archeology	A. Miglio (R)
10:35	Tea/Coffee Break	
11:05	Dark Matter Constraints from the Sun and Stars	I. Lopes (R)
11:30	Concluding remarks	M. Cunha
12:30	End of meeting/ Lunch break	