

# PROGRAMME

## Sunday 6 August

1600 until 1745	Registration Poster setting up	(University House) (Loxley)
1800 until 1945	Vice-Chancellor's reception	(Firth Court)

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## Monday 7 August

0715	Poster setting up	(Loxley)
0815	Registration	(Atrium of Students Union)
0900	Welcome	(Auditorium)
0910	J. Toomre <i>Various dynamical puzzle pieces in the seismic Rubik's cube</i>	

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### Session 1: Local methodologies

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0955	A. C. Birch <i>Local helioseismology, techniques and issues</i>	
1035	Coffee / Tea	
1120	I. González Hernández <i>Farside helioseismic holography: recent advances</i>	
1135	C. Lindsey <i>Seismology of magnetic photospheres</i>	
1155	H. Schunker <i>Comparisons between observed and simulated surface velocities in the presence of inclined magnetic fields</i>	
1210	L. Gizon <i>Imaging the interaction of solar waves with a sunspot</i>	
1230	Lunch	

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## Monday 7 August

### Session 2: Temporal variations and flows

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1430 R. Howe  
*Seismic results on temporal variations of the solar interior*

1500 S. V. Vorontsov  
*Improving the seismic visibility of the solar tachocline*

1520 G. A. Verner  
*The seismic Sun over three activity cycles*

1535 S. Lefebvre  
*Cyclic variability of the seismic solar radius from SOHO / MDI and related physics*

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1550 Coffee / Tea

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1620 J. Zhao  
*Structure and flows under active regions*

1650 R. Komm  
*Twists and turns of subsurface flows*

1705 B. W. Hindman  
*Subsurface convective flows within magnetic active regions measured through ring analysis*

1720 B. Fleck  
*Project report: SOHO*

1730 F. Hill  
*Project report: GONG*

1740 J. Schou  
*Project report: HMI*

1750 O. von der Lühe  
*Project report: HELAS*

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1800 Close

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1830 Visit to Kelham Island Industrial Museum  
*Please meet on Western Bank for departure by coach*

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2115 Coaches leave to Tpton Hall and hotels

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## Tuesday 8 August

0900 M. L. DeRosa  
*Consequences of large-scale flows around active regions on the dispersal of magnetic field across the solar surface*

0915 C. A. Green  
*Effect of the subsurface shear layer on solar supergranulation*

0930 M. Gordovskyy  
*Determination of sunspot structure from p-mode observations*

0945 A. D. Crouch  
*Mode conversion and active region acoustics*

1000 A. Donea  
*Seismic emission from solar flares*

1030 A. G. Kosovichev  
*Sunquake sources and wave propagation*

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1050 Coffee / Tea

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### Session 3: Seismology above the photosphere

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1125 R. Erdélyi  
*Magnetic seismology of the lower solar atmosphere*

1205 S. M. Jefferies  
*Low-frequency magneto-acoustic waves in the solar chromosphere*

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1220 Conference photograph

Lunch

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## Tuesday 8 August

### Session 4: Modelling the solar interior

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1415	N. Grevesse <i>Does the Sun have a sub-solar metallicity?</i>
1445	J. A. Guzik <i>Reconciling the revised solar abundances with helioseismic constraints</i>
1515	M. Rempel <i>Non-kinematic flux-transport dynamos and torsional oscillations</i>
1530	S. V. Ayukov <i>Solar evolution model with diffusion and new equation of state</i>
1545	K. Mussack <i>Molecular-dynamics simulations of hot dense Coulomb systems</i>
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1600	Coffee / Tea
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1630	Poster session
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1800	Close
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1900	Public lecture (Sheffield Hallam University)  D. W. Kurtz <i>Songs of the stars</i>

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## Wednesday 9 August

### Session 5: Low-degree seismology from the Sun to the stars

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0900	<i>Brief dedication to George Isaak</i>
0910	W. J. Chaplin <i>Helioseismology with low-degree observations: where we stand, and what the future holds</i>
0950	T. Appourchaux <i>The internal structure of the Sun inferred from g modes and low-frequency p modes</i>
1010	R. A. García <i>Detection of asymptotic solar <math>l=1</math> g-modes in GOLF data and consequences for our knowledge of the solar core</i>
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1030	Coffee / Tea
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1110	S. Turck-Chièze <i>The DynaMICS project</i>
1120	T. Bedding <i>Observations of stellar oscillations</i>
1200	M. Takata <i>Rigorous analysis of dipolar oscillations of stars</i>
1215	S. T. Fletcher <i>Frequency, splitting, linewidth and amplitude estimates of low-<math>l</math> p modes of alpha Cen A: analysis of WIRE photometry</i>
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1230	Lunch  Free afternoon
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1600	Chatsworth / Peak District excursion <i>Please meet on Western Bank for departure by coach</i>
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1900	Conference dinner (Chatsworth House)
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2300	Coaches leave to Tupton Hall and hotels

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## Thursday 10 August

### Session 6: Mode physics

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0900	G. Houdek <i>Excitation and damping of solar-like oscillations</i>
0940	M.-A. Dupret <i>Non-adiabatic effects in classical pulsators</i>
1030	Coffee / Tea

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### Session 7: A new era of asteroseismology

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1110	J. M. Matthews <i>Asteroseismology from the MOST space mission: one small satellite, so many light curves</i>
1150	C. Barban <i>Studying solar-like oscillations in red giants: MOST spacebased photometry of eps Ophiuchi</i>
1205	O. Moreira <i>Modelling intermediate mass red giants</i>
1220	Lunch

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## Thursday 10 August

1420	C. Aerts <i>Pulsations and potential for seismology of main-sequence B stars</i>
1450	G. Fontaine <i>Asteroseismology of sdB stars: successes and challenges</i>
1520	D. W. Kurtz <i>Resolving the third dimension in roAp stars</i>
1540	A. Baglin <i>Project update: CoRoT</i>
1550	R. Samadi <i>Project update: CoRoT</i>
1600	Coffee / Tea
1630	Poster session
1800	Close

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## Friday 11 August

### Session 8: Dynamics and numerical simulation

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- 0915 S. Vauclair  
*Asteroseismology of planet-host stars in connection with planet searches*
- 0945 S. Mathis  
*Rotational transport: a dynamical description of stellar radiation zones*
- 1000 S. Talon  
*Internal gravity waves in the Sun*
- 1015 A. Palacios  
*Dynamical physical processes in the solar radiative interior*
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- 1030 Coffee / Tea
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- 1100 K. V. Parchevsky  
*Numerical simulation of acoustic power distribution in sunspots*
- 1115 S. M. Hanasoge  
*Computational acoustics in spherical geometry: modeling and results*
- 1130 J. Sterne  
*Artificial data for local helioseismology*
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- 1145 J. Christensen-Dalsgaard  
*Prospects for helio- and asteroseismology*
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- 1230 Close
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