



4th British Seismology Meeting Schedule

Monday 25th March 2024



11:30

REGISTRATION OPENS

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12:45

Opening Remarks

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SESSION 1

13:00 Re-analysis Of Historical Data Using Machine Learning
Stuart Nippres (AWE Blacknest)

13:15 Seismic Data Archive In The United Kingdom To Support Nuclear Test Monitoring
Peter Bartholomew (AWE Blacknest)

13:30 Source Analysis Of Industrial And Forensic Events
Michael Pasyanos (Lawrence Livermore National Laboratory)

13:45 Seismological Evaluation Of The Events In Connection With The Leaks In The Nord Stream 1 And 2 Gas Pipelines On 26 September 2022
Thomas Plenefisch (Federal Institute for Geosciences and Natural Resources, Hannover)

14:00 **Characterising Small Coastal And Underwater Seismic Sources Using International Monitoring System And Local Seismic Network Data**
Ross Heyburn (AWE Blacknest) - Invited

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14:30

COFFEE BREAK

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SESSION 2

15:00 Risk Related Red-Light Thresholds For Induced Seismicity In The UK
Brian Baptie (British Geological Survey)

15:15 A New Seismic Hazard Model For The Offshore Regions Around The United Kingdom
Ilaria Mosca (British Geological Survey)

15:30 Seismic Surveys To Inform Heat-Flow Experiments In A Fractured Chalk Aquifer, Berkshire, UK
Katerina Kyrkou (University of Leeds)

15:45 Impacts Of Deep Learning To Detect Induced Seismicity: A Case Study From Preston New Road, UK
Cindy Lim (University of Bristol)

16:00 19th and 20th Century Damaging Earthquakes In The Hainaut Coal Basin Of Belgium: Triggered Or Natural?
Koen Van Noten (Royal Observatory of Belgium)

16:15 Seismic Anisotropy As A Measure Of In-Situ Stress For Safe CO2 Storage
Joseph Asplet (University of Oxford)

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16:30 COFFEE BREAK

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17:00 Understanding North Sea Seismicity To Gain Stress Field Information And De-Risk Large-Scale CO2 Injections

Daniela Kühn (NORSAR) - Invited

SESSION 3

17:30 Station Statistics Obtained From Parametric Data Reported To The ISC
Ryan Gallacher (International Seismological Centre)

17:45 Successful Deployment Of An 18km SMART Cable With Force-Feedback Seismometer And Accelerometers In The Mediterranean Sea
Neil Watkiss (Güralp Systems Ltd.)

18:00 Seismic Noise Interferometry For Phase Transmission Fibre Optics
Sixtine Dromigny (University of Oxford)

18:15 A New Approach To Infrasound Sensor Design
Cansun Guralp (GaiaCode Ltd.)

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18:30 ICEBREAKER/POSTERS

Tuesday 26th March 2024

SESSION 4

08:30 Application Of PhaseNet To A National Seismic Network
Richard Luckett (British Geological Survey)

08:45 Estimating Seismic Attenuation, Site Corrections And Geometrical Spreading From Large Seismic Catalogues Using Linearised Spectral Ratios And Regression Regularisation Paths
Sacha Lapins (University of Bristol)

09:00 Automatic Relocation Of Intermediate-Depth Earthquakes Using Adaptive Teleseismic Arrays
Alice Blackwell (University of Leeds)

09:15 Solving The Elastic Wave Equation With Physics-Informed Neural Network
Davide Staub (ETH Zürich)

09:30 3D & 4D Variational Bayesian Full Waveform Inversion
Andrew Curtis (University of Edinburgh) - Invited

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10:00 POSTER SESSION WITH COFFEE
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11:30 Pushing Our Data To The Limit And No Further: Constraining Earth Properties Using Backus-Gilbert Inferences
Paula Koelemeijer (University of Oxford)

11:45 Vp/Vs Tomography In South-East Asia Using SOLA-Backus-Gilbert Inversion
Emile Serra (Institut Terre et Environnement de Strasbourg, Université de Strasbourg)

SESSION 5

12:00 A Search For Dilation In Low Frequency Earthquake Waveforms
Jessica Hawthorne (University of Oxford)

12:15 Deep Long-Period Earthquakes At Alaskan Volcanoes And Their Relations To Fluid/Magmatic Transport
Zilin Song (Chinese University of Hong Kong / University of Edinburgh)

12:30 Evidence For Crustal Melt Lens Beneath Changbaishan Volcanic Field
Weiqian Yu (Institute of Geology, Chinese Earthquake Administration)

12:45 Seismic Crustal Structure Of The Reykjanes Peninsular, SW Iceland
Jenny Jenkins (Durham University)

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13:00 LUNCH
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SESSION 6

14:00 The Moho And Lithosphere-Asthenosphere Boundary Below The Turkana Depression, East Africa: Evidence From Project TRAILS
Ian Bastow (Imperial College London)

14:15 Insights On The African Upper Mantle From Quasi-Love Wave Scattering
Thomas Merry (Australian National University / University of Cambridge)

14:30 3D Imaging Of Rayleigh Wave Mantle Attenuation With Uncertainty Quantification
William Sturgeon (University College London)

14:45 The UPFLOW Experiment: Peeking From The Sea Floor To The Deep Mantle With An
~1,500 km Aperture Array Of 50 Ocean Bottom Seismometers In The Mid-Atlantic
Ana Ferreira (University College London)

15:00 The Patchy Core-Mantle Boundary
Sanne Cottaar (University of Cambridge) - Invited

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15:30 COFFEE BREAK

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16:00 Determining Subsurface Temperature & Lithospheric Structure From Joint Geophysical-
Petrological Inversion: A Case Study From Ireland
Emma Chambers (Dublin Institute for Advanced Studies)

16:15 Seismic Thermography, Or The Importance Of Inverting For What We Really Want To
Know
Sergei Lebedev (University of Cambridge)

SESSION 7

16:30 More Equitable Recruitment Of PhD Students In Geophysics
Benjamin Fernando (Johns Hopkins University)

16:45 How Do We Promote Geophysics At Highschool Level
Jenny Jenkins (Durham University)

17:00 Open Forum Discussion On Promoting The Next Generation Of Geophysics

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19:00 CONFERENCE DINNER – The Great Reading Earthquake
Roger Musson (virtual)

Wednesday 27th March 2024

SESSION 8

09:00 Forecasting Coastal Cliff Collapse Using Distributed Sensing
Jess Johnson (University of East Anglia)

09:15 How An Extraordinary Tsunamigenic Rockslide Into a Greenland Fjord Seismically Rang
The Earth For 9 Days
Stephen Hicks (University College London)

09:30 Seismic Tracking Of The OSIRIS-REx Re-Entry
Benjamin Fernando (Johns Hopkins University)

09:45 A Description Of The Continuous Seismic Dataset Recorded By InSight On Mars
Anna Horleston (University of Bristol)

**10:00 Contributions Of Autonomous Seismo-Acoustic Floats In The Oceans To Earthquake
Location And Structural Studies Of The Solid Earth**
Karin Sigloch (CNRS Geoazur) - Invited

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10:30 POSTER SESSION WITH COFFEE

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SESSION 9

11:30 Recent Aftershock Sequences Reported To The ISC
Thomas Garth (International Seismological Centre)

11:45 Discussion On The Recent Large Earthquakes And Tectonic Environment In Menyuan,
Qinghai, China
Anhui Sun (Institute of Earthquake Forecasting, Chinese Earthquake Administration)

12:00 A Decade Of Prospective Evaluations Of One-Day Seismicity Forecasts For California
Maximilian Werner (University of Bristol)

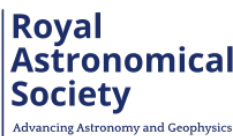
12:15 Dynamic Effects On The Slip Distribution Of The 2023 Kahramanmaraş Earthquake
Nurcan Meral Ozel (Kandilli Observatory and Research Institute)

**12:30 Imaging The Deep Structure Of Continental Shear Zones: A Review Of Faultlab North
Anatolian Fault Zone Findings With The DANA Seismological Network**
David Cornwell (University of Aberdeen) - Invited

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13:00 The ISC As A Long-Term Facility Hosted By The UK For International Seismology
Dmitry Storchak (International Seismological Centre)

13:15 Closing Remarks



nanometrics



SMARTSOLO
SCIENTIFIC