2nd Warwick Postdoctoral Science Symposium

All talks will take place in the Medical Teaching Centre, MD0.01.

Lunch and the poster session will take place in the Life Sciences Atrium

08:30 Registration
09:10 Welcome – Mick Staniforth

Session 1. Chair: Zehra Irshad

09:20 Kathrin Götze (Physics) - Extreme environments for electrons - The physics of low temperatures and high magnetic fields.

09:40 Amol Bhandare (School of Life Sciences) - Analyzing the brainstem circuits for respiratory chemosensitivity in freely moving mice.

10:00 Flash talks:

Jaemin Lee (Chemistry) - Robust silver electrodes for highly efficient and stable organic solar cells.

Dominik Kempa (Computer Science) - Indexing massive datasets.

Ritika Ghosal (School of Life Sciences) - How did the tongue evolve in tetrapods?

Manikandan Balasundaram (Warwick Manufacturing Group) - Prediction of large format high power cell performance using NTG model.

10:20 Non-Academic talk: India Foster and Katie Irgin - Impact Services and City of Coventry

10:40 Coffee break

11:00 Keynote. Chair: Swati Kumar Professor Russell Foster CBE, FRS Light, clocks and sleep – a journey through time

12:00 Q&A

12:20 Lunch and Poster Session (Life Sciences Atrium)

Session 2. Chair: Laura Cooper

13:40 Anirudh Rana (Warwick Maths Institute) - Thermal management at nano-scales: modelling of multi-scale and multi-phase flows.

14:00 Alexander Darlington (Engineering) - Increasing yields in biosynthetic pathways using orthogonal ribosomes.

14:20 Flash Talks:

Ingrid Edwards (Chemistry) - Study of protein-protein interactions within the bacterial cell division wall, as a new target for antimicrobial agents.

Federica Dimitri (Warwick Medical School) - MicroRNAs in brown and white adipocytes.

Martin Kubes (School of Life Sciences) - How does the Arabidopsis auxinome respond to auxins applied as herbicides?

Selcuk Atalay (Warwick Manufacturing Group) - Aging Characteristics of Lithium-ion Batteries.

14:40 Non-Academic talk: Sandy Sparks - Learning and Development Centre

15:00 Coffee break
Session 3. Chair: Mick Staniforth

15:15 Zehra Irshad (Warwick Medical School) - DGAT1 matters for VLDL size: Implications for coronary artery disease.

15:35 Cynthia Siew (Psychology) - Quantifying the structure of the mental lexicon using network science.

15:55 Flash Talks:
Saran Shantikumar (Warwick Medical School) - A machine learning-developed classification system of GP practices, and its relationship to antibiotic prescribing.

James Davis (Computer Science) - Analysing computing performance through modelling and proxy applications.

Blessing Anonye (School of Life Science) - The potential of an ancient remedy for the treatment of diabetic foot infections.

Anisha Patel (Warwick Manufacturing Group) - In situ Operando Characterisation of Lithium Ion Battery Degradation.

16:15 Coffee break

16:30 Prize presentations

Session 4. Chair: Chris Patrick

16:50 Mikhail Poluektov (Warwick Manufacturing Group) - Modelling stress-affected localised chemical reactions without remeshing.

17:10 Michael Horbury (Chemistry) - From Leaf to Skin: a Journey Towards Better Sunscreens.

17:30 Non-Academic talk: Peter Scott - Institute of Advanced Studies

17:50 Closing Remarks: Mick Staniforth

18:00 Wine and Pizza Reception

19:00 End