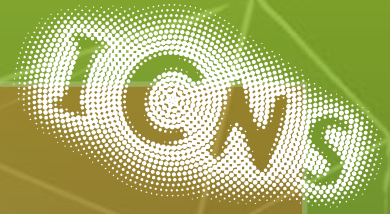


# BEYOND!

## von Neumann Computing



### Topics

- Brain inspired computing concepts
- Beyond von Neumann hardware
- Spatio-temporal networks as neuromorphic hardware
- Delay networks as neuromorphic hardware
- Novel devices for hardware neurons

### Organizers

Stuart Parkin, Director ICNS  
Daniel Brunner, FEMTO-ST,  
Besançon, France

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Out-of-the-box thinking, highly motivated young scientists are especially welcome to register.

Feel free to share your motivation with us!

### Speakers

Bhavin J. Shastri | Princeton University, USA  
Daniel Brunner | FEMTO-ST, Besançon, France  
Damien Querlioz | University of Paris-Sud, France  
Guy Van der Sande | Vrije Universiteit Brussel  
Herbert Jaeger | Jacobs University, Bremen, Germany  
Ingo Fischer | IFISC (UIB-CSIC), Palma de Mallorca, Spain  
Jacob Torrejon | CNRS (Thales Lab), Université de Paris Sud, France  
Julien Sylvestre | Université de Sherbrooke, Canada  
Laurent Larger | FEMTO-ST, Besançon, France  
Leslie Valiant | Harvard University, USA  
Marc Timme | Max Planck Institute for Dynamics and Self-Organization, Germany  
Serge Massar | Université Libre de Bruxelles, Belgium  
Peter Bienstmann | Ghent University, Belgium  
Robert Legenstein | Graz University of Technology, Austria  
Simon Thorpe | Université Toulouse III - Paul Sabatier, France  
Steve Oh | A\*STAR, Bioprocessing Technology Institute, Singapore

### Participation

The workshop covers materials, devices and architectures that could enable beyond von Neumann computing via Neuromorphic systems.

Radically new approaches are essential for creating next generation information processing technology.

We are looking for enthusiastic participants from all around the world who like exploring innovative ideas and foster collaboration.

In case of a successful admission we do cover your on-site costs.

Harnack-Haus, Berlin  
May 18<sup>th</sup>-21<sup>st</sup>, 2016



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OF MICROSTRUCTURE PHYSICS



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