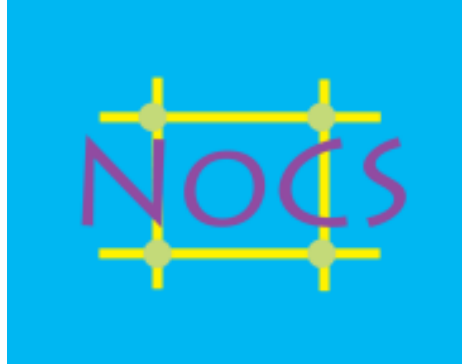


Welcome to
Async and NoCs 2008
from Newcastle University
Pro-Vice Chancellor
Professor Oliver Hinton





Welcome to Async and NoCs 2008

John Bainbridge, Davide Bertozzi, Jordi Cortadella, Kees Goossens, Albert Koelmans, Alexander Taubin, Fei Xia, Alex Yakovlev



Collocated Event

- This is the first collocation of ASYNC and NoCs
- Thanks to brave decision of the Steering Committees chaired by Erik Brunvand (ASYNC, Univ. of Utah) and Ran Ginosar (NOCS, Technion)

Attendees

- Belgium - 3
- Canada - 1
- China - 2
- Denmark - 4
- France - 10
- Germany - 3
- Greece - 3
- India - 1
- Iran -1
- Israel - 6
- Italy – 3
- Japan - 5
- Kuwait - 1
- Netherlands - 5
- Russia -1
- Slovakia -1
- Spain - 6
- Sweden – 1
- Switzerland - 3
- Taiwan - 1
- USA - 30
- UK - 66 (inc. Scotland - 2)
- Vietnam - 2

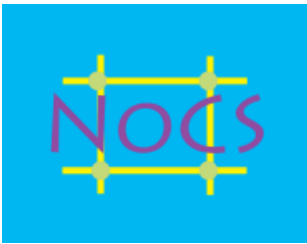
Statistics by continents:

Europe	115 (72.3% UK 41.5%)
America	31 (19.5%)
Asia	13 (8.2%)

ASync'08 Technical Program



- Technical program committee (TPC)
 - Co-Chairs: Jordi Cortadella (UPC) & Alexander Taubin (BU)
 - 44 members over 15 countries
- Paper review process
 - Most papers received 6 reviews by TPC members
- Statistics
 - 40 papers submissions from 13 countries
 - 15 papers accepted
 - 37.5% acceptance ratio



NOCS'08 Technical Program

- Technical program committee (TPC)
 - Co-Chairs: Kees Goossens (NXP Research, TU Delft) & Davide Bertozzi (University of Ferrara)
 - 48 members over 14 countries
- Paper review process
 - Most papers received 4 reviews by TPC members
- Statistics
 - 60 papers submissions from 18 countries
 - 19 papers, 7 posters accepted
 - 31.6% paper acceptance ratio
 - A broader 43,3% including posters for visibility and exchange of new ideas

Monday Tutorials

Tutorials Chair: Alex Bystrov (*Newcastle University*)

- David Kinniment (Newcastle University)

"Metastability and Synchronisation in SOCs and NOCs",

- Sachin S. Sapatnekar (University of Minnesota)

"Analysis and Optimization of Global Interconnects"

- Mike Kishinevsky (Intel, SCL)

"Synchronous Elastic Systems"

Demos by:

Nikos Minas, Jun Zhou, Robin Emery (Newcastle) and Marc Galceran (Barcelona)

Invited Speakers(ASYNC)



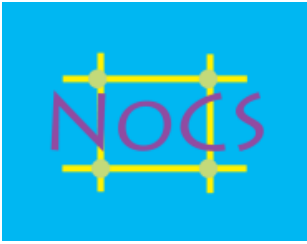
Invited Speaker Chair: Simon Moore
(University of Cambridge)

- **"Asynchronous circuit technology is on the market"**

Ad Peeters and Arjan Bink (Handshake Solutions)
– *Tuesday*

- **"Statistical device variability and its impact on design"**

Asen Asenov (University of Glasgow) – *Thursday*



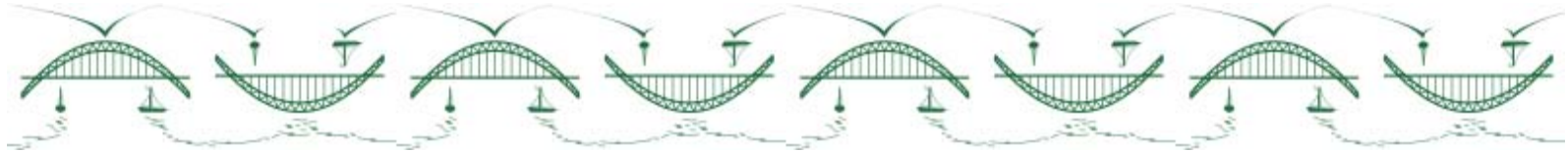
Invited Speakers (NOCS)

- **"Past, present and future communicating processors"**
David May (University of Bristol), Wednesday
- **"Optical Interconnects for Backplane and Chip-to-chip Photonics"**
Ian H. White (University of Cambridge), Friday

Async'08 Best Paper Award

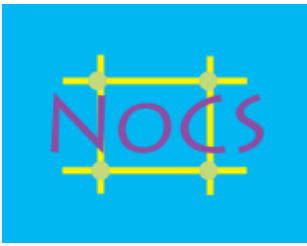
- Best Paper Award Chair: Jens Sparsø (DTU, Denmark)
- BPA committee: Chris Myers, Mark Greenstreet, Ran Ginosar, Josep Carmona, Doug Edwards
- *Award announced Thursday 17:30*

Special issue TVLSI



- Extensions of papers presented in **ASYNC08** are especially encouraged
- *Important Dates:*
 - Submission Deadline: July 1, 2008
 - Notification Date: October 1, 2008
 - Final Version Due: November 3, 2008
 - Target Publication Date: 3rd Quarter, 2009
- *Guest Editors:*

Jordi Cortadella *and* Alexander Taubin



Special issue IET Computers & Digital Techniques

- Special Issue on Networks-on-Chip
- Extensions of papers presented in *NOCS08* are especially encouraged
- *Important Dates:*
 - Submission Deadline: July 1, 2008
 - Notification Date: November 1, 2008
 - Final Version Due: January 1, 2009
 - Target Publication Date: March 2009 Issue
- *Guest Editors:*

Kees Goossens *and* Davide Bertozzi

Demonstration Session

6-8 pm, Tuesday 8th April, Lindisfarne Room

Demo Chair: Graeme Chester (Newcastle University)

Asynchronous High-speed Modeling and Optimization tool Set (AHMOSE).	Eslam Yahya TIMA, France
Behavioral synthesis of Asynchronous Circuits.	Sune F. Nielsen Technical U. of Denmark
Persia: A QDI Asynchronous Synthesis Tool.	Mehrdad Najibi AmirKabir U. of Tech.
Teklatech's FloorDirector.	Tobias Bjerregaard Teklatech
ALPIN, an Asynchronous Low-Power Innovative NoC	Pascal Vivet CEA-LETI
Workcraft framework	Ivan Poliakov Newcastle University
On-chip Measurement Circuit of Synchronizers	Jun Zhou Newcastle University

Social Programme

- Monday – Welcome Reception (Courtyard)
- Tuesday – Demo Reception (King's Road Centre)
- Wednesday – Beamish Museum Tour
- Wednesday – Conference Banquet in Civic Centre (After-dinner Speaker: Prof Tom Anderson, Centre for Software Reliability)
- Tuesday, Thursday and Friday evening meals in local restaurants – liaison with Newcastle Students

Information for Presenters

- Presenting co-authors should contact session chairs (see the proceedings) with short bio and other useful information
- Presentations should be uploaded on the Desktop PC one session before
- Poster Session on Friday – posters can be displayed in Herschel building Foyer from Thursday

A Note of Thanks

- The Authors
 - For submitting the high quality papers
- The PC members and Reviewers
 - For their dedication and the time to review, discuss, select the papers
- The Attendees
 - For lively questions and discussion

A Note of Thanks

- Publications Chairs: Erik Brunvand (Async, Univ. Utah) and Luca Carloni (NoCs, Columbia Univ.)
- Finance Chair: David Kinniment (Newcastle Univ.)
- Publicity Chairs: Bob Mullins (Cambridge Univ.) and Srinivasa Murali (EPFL)
- Newcastle-Tyne-Bridge C-element Logo Design: Andrey Mokhov
- Web Chair: Ian Clark (Newcastle)
- IEEE Liaison: Tony Davies (Kingston)
- Secretarial Support: Helen Barber, Amy Morecroft, Natalie Henderson, Yvonne Turnbull
- Newcastle Student Helpers:

Big Thanks to our Sponsors

Thank you to our Sponsors



Industrial Co-Chairs: Marly Roncken (Intel),
Pascal Vivet (CEA-LETI)

Sponsorship Chair: Gordon Russell (Newcastle University)

Practical Information

- Tuesday Lunch: University King's Road Centre (Lindisfarne Room)
- Other lunches and Coffee breaks: Herschel Building Foyer
- WiFi – “Raven” everywhere in Herschel, access key in your conference bag
- Questions and Assistance:
Contact local people (including Student helpers) with a **red dot** on their badges

Conference schedule

Monday

Tutorials, L101 with coffee/lunch in the **Buttery**, Merz Court

Evening welcome reception, the Courtyard, Old Library Building

Tuesday

Main conferences, Curtis Auditorium with coffee/registration in the **Foyer**, Herschel Building

Lunch and evening *Industrial Demo*, the **Lindisfarne Room**, King's Road Centre

Wednesday

Conferences, Curtis Auditorium with coffee in the **Foyer**, Herschel Building

Excursion, Beamish Museum, Coaches booked to start from Campus (outside King's Road Centre)

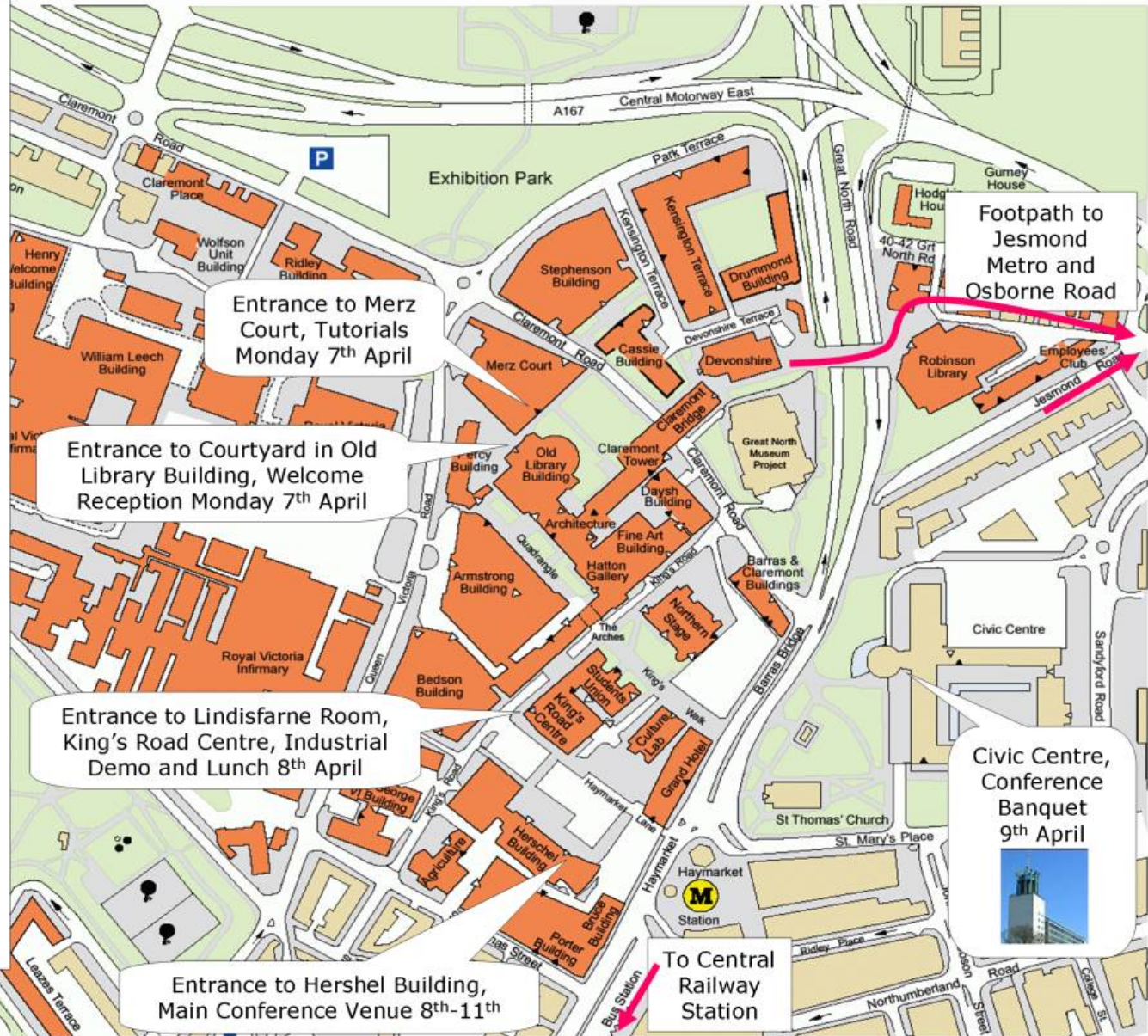
Banquet, Civic Centre

Thursday

Conferences, Curtis Auditorium in the morning, **LTh3** in the afternoon with coffee in the **Foyer**, Herschel Building

Friday

Conferences, Curtis Auditorium in the morning with coffee and *posters* in the **Foyer**, Herschel Building



Fire Safety

- On hearing the alarm
- **Leave** the building promptly
- Use the nearest **fire exit** - stairs only, **not lifts!**
- Assembly area – Car Park in Front of Herschel Building (closer to Haymarket)
- Do not go back into the building until specifically told to do so

Martin Rem Memorial Session

Tuesday, 8 April, 11am

Chair: Jo Ebergen (Sun
Microsystems)



Martin Rem

22.09.1946-27.03.2008