Computer and Network
Architectures laboratory

Bengt Ahlgren
Bengt.Ahlgren@sics.se
CNA Scope

We are carrying out research to enhance the computer and network platform for future distributed applications.
Areas of research

- Protocols and networks
- Mobile and wireless communication
- Service architectures and scalable distributed applications
- Computer architecture simulation
Lab members

**Henrik Abrahamsson** – starting as a PhD student at MdH for Mats Björkman, traffic measurements and modelling, IP traffic engineering: load balancing & multi-path routing

**Bengt Ahlgren**, PhD – lab manager

**Lars Albertsson** – on leave, Sun Boston, back in October, computer architecture simulation – real-time properties

**Anders Andersson** – starting as a PhD student at KTH for Gunnar Karlsson (IMIT)/Mikael Johansson (S3), traffic measurements and modelling, IP traffic engineering: load balancing & multi-path routing, starting with self-regulating traffic control
Lab members (2)

Adam Dunkels – starting as PhD student at MdH for Mats Björkman, small protocol implementations for embedded systems, starting with sensor networks

Laura Feeney – ad-hoc networking, energy management issues

Björn Grönvall – still on leave, Effnet Tucson, before: using Bloom filters for scalable multicast forwarding

Ian Marsh – PhD student at KTH (Gunnar Karlsson), IP telephony, delay issues, buffer playout algorithms
Lab members (3)

**Thiemo Voigt**, PhD – on leave, post-doc in Berlin, completed PhD thesis in the spring on admission control architectures for web servers

**Runtong Zhang**, PhD – new in the lab since March, background in automatic control, fuzzy control
Presentations

Laura Feeney – Power management for ad-hoc over 802.11

Bengt Ahlgren – A multi path routing algorithm for IP networks based on flow optimisation

Adam Dunkels – Demo of TCP/IP on Lego mindstorm