



3rd Workshop on Wireless Sensor Networks Research in Ireland (WiSen 2007) – Call for Poster Submissions.

WiSen 2007 – affiliated with WiSEN Roadmapping Activities 2007

National Digital Research Centre

Digital Exchange, Crane St, (Off Thomas St), The Digital Hub, Dublin 8, Ireland.

Wednesday December 5th 2007 – 10:00 to 16:00

Objective & Background

WiSen is an Irish Government supported initiative. It comprises a network of organisations drawn from industry, third-level institutes and government agencies, who share a common vision of the importance of wireless sensor networks in Ireland's future economy and shaping our future society, and are united in a common desire to promote wireless sensor network research, development and successful commercialisation.

Part of WiSen's mission is to create opportunities for collaboration between industry and academia in the area of Wireless Sensor Network (WSN) technologies, systems and large scale, practical deployments. The third Workshop on Wireless Sensors Networks (WiSen 2007) brings together experts from academic and industrial backgrounds to develop a dialogue on the R&D requirements for next generation wireless sensor network commercial products and devices, and which will highlight future and emerging research challenges in the WSN space focusing on the RF aspects of research and development in this exciting area.

The workshop will consist of key-note presentations from industry experts and poster sessions from academia and industry in the area of RF developments.

Call for Poster Submissions

This call is being issued for poster presentations from academia and industry which will help define the challenges in the development of next generation wireless sensor network systems, and which will engender collaborative links between industry and academia in applied research projects

Posters (size A0) are required to address the needs of a particular application area in the utilization of RF in WSNs; including (but not limited to) Building Management, Environmental Monitoring, Health Monitoring, Automotive etc.

A one page submission is requested that will consist of a short abstract (max. 200 words) followed by a short profile (max. 100 words) of the research group or company. Submissions should be emailed to admin@wis-en-ireland.com before December 1st 2007.

Academic posters: the abstracts should clearly outline the technical aspects of the research to be presented with an emphasis on the practical applications being targeted.

Industry posters: Abstracts should emphasise the product or service space in which the company is operating and the R&D challenges/technology roadmaps envisaged for next generation products.

There will be limited scope for **demonstrations**, and the committee will endeavour to meet any particular requirements specified as regards demonstration space, table top exhibition space etc. Future Workshops will address requirements in the areas of software, middleware and other research areas for WSNs

Research Topics of interest include, but are not limited to:

Radio IC design and development	Networking, Encryption
Hardware platforms, tradeoffs, and trends	Network management and debugging,
Low-power operation	Network and software reliability
Antenna design	Network and system architectures
Future applications requirements & challenges	ISM Band Frequency Band Allocation issues
Benchmarks and evaluation suites	Application experiences: measurements, successes and failures

Preliminary Programme for Workshop

Facilities will be open from 9:30 for poster setup

10:00 Registration & Coffee.

10:30 - 10:45 Opening Address – **John Doyle** WiSen Chairman

Keynote Speakers Session 1

10:45 - 11:30 **Dirk Pesch (Cork Institute of Technology)** – Wireless Protocols for WSNs

11:30 - 12:15 **Ciaran Connell (Decawave)**– Ultra Wideband and Sensor Networks

12:15 - 13:00 **Dr Neil C. Bird (Philips Research Europe)** - RF Challenges for WSN and Beyond

13.00 – 14.15: Buffet Lunch, Posters and Networking

Keynote Speakers Session 2

14.15 – 15.00 **Michael Flynn (University of Michigan)** – RF IC Design for WSNs

15.00 – 15.45 **Max Ammann (Dublin Institute of Technology)** – Antenna Challenges for WSN

15.45 – 16.00 Feedback & Closing Remarks - **WiSen Chairman**

Important Dates and Submission Guidelines:

Poster Abstract Registration

Attendees who wish to present a poster need to register indicating this by December 1st

Poster Registration requires provision of a Poster abstract indicating WiSen application area and research group profile as appropriate by November 30th

The WiSen Program Committee discourages submissions that can not be directly applied to a wireless sensor networking application scenario, and it would be beneficial for submissions to indicate their target sensor network application.

We especially welcome papers that will help inform and guide research and engender collaboration between industry and academia.

Please email submissions to admin@wisen-ireland.com

Booking

There is no charge for this event, but places are limited and must be booked in advance. Please send your name, role and company name to Ann Carolan at Enterprise Ireland by Monday 3rd December 2007. You can phone her at 01-8082374 or email: ann.carolan@enterprise-ireland.com

ORGANISATION:

General Chair:

John Doyle,
Benetel
Email: johndoyle@benetel.com

Program Chair:

Cian O Mathuna, Tyndall National Institute
Email: cian.omathuna@tyndall.ie

Workshop Committee Members:

Michael Mcgrath (INTEL)
Bill Hunt (Analog Devices)
Michael Phelan (Wirelite Sensors)
Mike Byrne (EI Electronics)
Willi Kiefel (Valeo Vision Systems; formerly CEL)
John Doyle (Benetel)
Dermot Diamond (NCSR)
Manfred Hauswirth (DERI)
Brendan O'Flynn (Tyndall National Institute)
Jim Lawler (Enterprise Ireland)
Liam Sweeney (Enterprise Ireland)

We would like to acknowledge the support of Enterprise Ireland in facilitating the organisation of this event.

