Düsseldorf: Why the world meets here

Business stimuli, lifestyle, atmosphere and internationality: With these characteristics Düsseldorf attracts around four million overnight guests a year. The elegant and cosmopolitan city has much to offer for tourists – and is the ideal spot for your business event.

Infrastructure: Excellent connections via the third-largest airport in Germany, the city's main railway station and several motorways make Düsseldorf easily accessible. And it is known as the "10 minute city": a modern bus and rail network ensure quick and easy transport in the city.

Conference and convention facilities: Inspiring and stimulating venues include the Congress Center Düsseldorf (CCD) and the Messe Düsseldorf exhibition centre, which are ideally located on a site between airport and the city centre. Düsseldorf also boasts various state-of-the-art arenas, large event halls and top conference hotels. Trade fairs, conferences and major events made in Düsseldorf are associated worldwide with high quality standards.

Locations: Be it conference, incentive or fringe programme, Düsseldorf offers locations for any taste: from ultramodern to traditional, from exclusively small to overwhelmingly large, from solidly grounded to floating on water, from relaxing to surprisingly exciting. Düsseldorf has the right location for any event.

Practical knowledge and expertise: Düsseldorf is a leading centre of trade and commerce in Germany. Numerous international enterprises from finance, fashion, advertising, research, the chemical sector and communications along with renowned research and education institutes have their head offices here providing easy access to the knowledge of leading experts.

Venue

The CCD Congress Center Düsseldorf sets itself apart as an international conference venue ideally located in Düsseldorf, capital of the state North Rhine-Westphalia and one of Germany's most important business and scientific hubs. Set on the banks of the Rhine and linked to Messe Düsseldorf exhibition centre, only three kilometres from Germany's third largest airport and five kilometres from the Old Town, the CCD Congress Center Düsseldorf complex combines with exhibition halls 1 and 3 to form a flexible room concept for up to 15,000 visitors.

Around 2,000 events take place each year in the CCD Congress Center Düsseldorf. They include a large number of major national and international congresses as well as high-profile corporate events and high-attendance exhibitions. More than 20,000 three- to five-star hotel rooms in Düsseldorf and the surrounding region offer the necessary accommodation.

Exhibition

A major exhibition related to the scope of the conference will be organized at the Düsseldorf Congress Center. For more information on the exhibition please visit www.ecoc-conference.org.

Organization

ECOC 2016 General Chairs
Ronald Freund, Fraunhofer Heinrich Hertz Institute, Berlin
Matthias Berger, Alcatel-Lucent, Nürnberg

ECOC 2016 Technical Program Chairs
Peter Krummrich, Technische Universität Dortmund
Christian Schaeffer, Helmut Schmidt Universität

ECOC 2016 Local Organising Committee
Volker Schanz, VDE ITG, Frankfurt
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ECOC 2016
DÜSSELDORF

42nd European Conference on Optical Communication

September 18—22, 2016
Congress Center Düsseldorf (CCD), Germany

**Paper Submission Deadline:
April 22, 2016**

CALL FOR PAPERS

www.ecoc-conference.org

ITG INFORMATION TECHNOLOGY SOCIETY IN THE VDE

VDE

ECOC 2016
DÜSSELDORF

The European Conference on Optical Communication (ECOC) is the largest conference on optical communication in Europe and one of the largest and most prestigious events in this field worldwide.

In September 2016 the 42nd edition of ECOC will take place in Düsseldorf, Germany, signifying the stability and attractiveness of this conference as one of the world`s major forums for research in optical communication and networks.

ECOC 2016 Overview

Sunday, Sept. 18, 2016

- A number of half-day workshops will be organized. Their aim is to create a discussion forum on topics related to the ECOC technical programme.
- Get Together Reception

Monday, Sept. 19 through Thursday, Sept. 22, 2016

- Keynotes, parallel sessions with both invited and contributed papers
- Symposia describing the most recent and influential developments in specific fields, "tutorials" giving a basic introduction to key topics

Monday, Sept. 19 through Wednesday, Sept. 22, 2016

- Exhibition

Important Dates

- Deadline for paper submission: ....April 22, 2016
- Notification of acceptance: ....June 10, 2016
- Registration deadline accepted authors:..July 30, 2016
- Submission Deadline
  for Post Deadline Papers: ....September 6, 2016

Submission of Papers

The technical programme committee invites submission of original, unpublished, clear, accurate, and relevant papers in any of the topic areas listed on the next pages. Both oral and poster presentations are welcome. Prospective authors should submit a three-page summary formatted according to the ECOC templates provided online, using the online submission process, by Friday, April 22, 2016.

Authors must also accept the VDE copyright conditions which will be given on the conference website. Final contributions will be published as part of the Conference Proceedings complete with ISBN reference number and will be available to all conference delegates. Papers will be also published after the conference through IEEExplore and the IET INSPEC.

Contributed papers are solicited in the following topical areas:

1) **Fibres, Fibre Devices and Fibre Amplifiers**
   Optical fibres, their design, fabrication and characterisation, physics of light propagation in optical fibres, fibre amplifiers and fibre lasers, as well as fibre based devices and specialty optical fibres for telecommunication and other applications.

2) **Waveguide and Optoelectronic Devices**
   Design, fabrication, testing of performances and reliability of devices and components used to generate, amplify, detect, route, interconnect and process optical signals for information transport and processing, routing and interconnecting. Technologies include planar and 3D wave-guides, bulk optics, based on various material systems.

3) **Digital and Optical Signal Processing**
   Modeling, design, and implementation of digital and/or optical techniques, for signal processing for long-haul, metro or access networks. This area includes digital signal processing algorithms for transmitters and coherent receivers, error correction coding, optical regeneration and any other schemes for impairment mitigation. Analog signal processing subsystems and engines for broadband wireless to fibre segment interfacing and vice-versa are also covered.

4) **Subsystems for Optical Networking and Datacoms**
   Modeling, design, implementation and test of optical, optoelectronic, or electrical subsystems, including line terminals with advanced modulation formats and functionalities, performance monitoring techniques and devices, add-drop multiplexers, optical switches, optical packet routers, optical interconnects, original measurement equipment, and for space applications. In addition, the area considers interconnection devices, subsystems and architectures that address the challenges of Datacom and Computercom.

5) **Point-to-Point Transmission Systems**
   Modeling, design, lab and field implementation of optical transmission fiber links and laser communication in free space, highlighting system level implications of physical impairments and impairment mitigation techniques. Contributions to this area are concerned with aspects such as capacity, reach, flexibility, of optical transmission systems and solutions to overcome the current limitations. Papers illustrating the transmission benefits of novel fibres, devices, subsystems and combined multiplexing techniques are welcome. Quantum communication systems based on optical fibre and free-space optical links are also covered.

6) **Core, Metro and Data Center Networks**
   Modeling, design, architecture, planning and scaling of optical transport for optical circuit and packet switched core, metro, inter as well as intra data center, and inter satellite networks. This also includes control, orchestration, and management functions, as well as the integration with higher layer network and data center services. It also covers aspects of successful network deployments and field trials.

7) **Access, Local Area and Home Networks**
   Networking aspects of broadband optical access, local-area and home networks. It covers FTTx, passive optical networks, radio-over-fibre systems, optical wireless and free space systems, hybrid wireless/optical solutions, in-building networks. It also comprises aspects of cost and energy savings, successful mass deployments and field trials. The topic of optical interconnects is covered within the 4th topical area.

For further information please visit:
www.ecoc-conference.org