



2nd Circular

1st International Conference and Exhibition on

Waterside Security WSS2008

Technical University of Denmark
Copenhagen, Denmark

25th - 28th August, 2008

www.wss2008.org

Conference chairman

Professor Leif Bjørnø, Denmark
(e-mail: prof.lb@mail.dk)



Research and development activities in **Waterside Security** have over recent years received increasing attention world-wide. In Europe this attention is reflected in the special programme on Security under EU's 7th Framework Programme. Terrorism has shown its ugly face in land and on the sea, in the streets and in the harbours, in air transports and in transports along our waterways. Technologies to detect and to abate terrorism are being developed in many countries, but the development activities are frequently scattered and uncoordinated from country to country. A need has long been felt for better coordination of the technological development in equipment and procedures for Waterside Security, for exchange of recent research and development results and for better general view of, where are we today, and where do we go in the future. Therefore, it is timely to organize the 1st international conference and exhibition on Waterside Security, which will be held in the hospitable environments of the Technical University of Denmark, in Kgs. Lyngby, 10 km North of Downtown Copenhagen.

The Conference will comprise plenary sessions with invited keynote lectures. Moreover, a series of structured oral sessions comprising invited papers given by leading international scientists will be organized by key persons actively engaged themselves in fronts of research in Waterside Security. Most recent research results will be presented in contributed papers to form basis for regular oral and poster sessions. All papers presented at the conference will be published in proceedings on a CD to be made available to all registered participants on the first day of the conference.

Moreover, the conference will comprise a number of Workshops and/or Panel Meetings over selected topics and scenarios of current interest in Waterside Security. The aim of the workshops/panel meetings is for instance to identify and to address particular capability gaps, where new technology, new knowledge and new procedures etc. are needed, and where the workshop/panel meeting can produce recommendations of research and development to be done, establish working groups to look deeper into the subjects and identify potential sources for funding of future research and development, where a need has been demonstrated.

It is a pleasure for me to invite YOU to take part in and to contribute papers to the 1st international conference and exhibition on Waterside Security, the WSS2008.

Leif Bjørnø



Conference Topics to which contributions are requested include:

Underwater systems in WSS

- Sonar systems for waterside security
- Stationary and mobile systems
- Harbour protection
- Force Protection
- Protection of oil terminals and container ports
- Protection of nuclear power and chemical plants
- Protection of dams and dikes
- Coastal zone and littoral security
- Underwater tube and cable protection
- Protection of off-shore installations incl. wind power plants
- ROV's and AUV's in waterside security
- Identification of man-made underwater objects
- Manned vehicles and divers in waterside security
- Sensor barriers for perimeter control
- Fixed mounted and free floating sensors
- Protection of inland waterways
- Ground movement control (seismic effects)
- Underwater communication and data collecting systems
- Mapping and imaging systems
- Protection of sailing routes and approaches to harbours
- Protection of navigational infrastructure
- Thermal and magnetic systems in waterside security
- Submarine nets

Above water systems in WSS

- Visual sea observation systems in waterside security
- Radar in waterside security
- Satellites in waterside security
- Physical barrier protection

Interdisciplinary aspects of WSS

- Integration of waterside security systems
- Communication networks and positioning systems
- Data fusion, data bases, intelligent user interfaces
- Exploitation of knowledge based systems in waterside security
- Vessel protection (Passenger vessels, tankers, nuclear vessels, fishing vessels, small crafts)



- Command, control and communication systems
- Check-in and control systems
- Protection of fresh water production plants
- Risk assessment, mitigation and treatment in waterside security
- Pollution assessment and environmental protection
- Legislation

Abstracts in English of no more than 300 words shall reach the Conference Secretariat in Denmark before March 1st, 2008. The abstracts of papers shall provide sufficient information to allow a fair assessment of the research and development carried out and the results obtained. All abstracts must in a clear way give pertinent information about the purpose of the work, the scientific method of approach and the technologies used, the main results obtained, and the conclusions to be drawn. The abstract of contributed papers must also indicate which of the conference topics above it is addressing, if any.

A template, which shall be used for electronic submission of all abstracts, can be found on the conference website. Address: <http://www.wss2008.org>

Note: Abstracts of all invited papers must also be sent to the conference secretariat by use of the template available on the conference website to facilitate the production of the Book of Abstracts to be made available to all registered participants on their registration.

Notification to authors will be sent on 15th March 2008

The full and final papers shall reach the Conference Secretariat in Copenhagen no later than 31st May 2008 to be included in the Conference Proceedings on a CD to be available to all registered participants on Monday, 25th August 2008. All papers, contributed as well as invited, shall be submitted by use of the electronic submission facility to be made available on the conference website by January 31, 2008. All papers shall be worked out according to Instructions to Authors and by use of a template to be downloaded from the conference website on the address: <http://www.wss2008.org> The Instructions to Authors and the template will be available by January 31st, 2008.



Conference publications

A “Book of Abstracts” will be available to all registered participants at the registration. The “Book of Abstracts” will be based on the electronically transferred abstracts only, and it will also comprise the necessary conference information on sessions, speakers, lecture theatres positions, exhibition and exhibitors, social events, etc. The Book of Abstracts will also be available on the conference website in advance of the conference.

The conference proceedings will be published on a CD-ROM, which will be available to all registered participants at their registration. The conference proceedings on CD-ROM are included in the conference registration fee. A limited number of hard copies of the conference proceedings will be produced to be distributed to libraries and to sponsors of the conference. The hard copies will only be produced on special request and a fee will be charged for their production, handling and mailing.

Poster presentations will be given the same number of pages in the Proceedings as oral presentations of contributed papers. The number of pages allotted to each category of papers are: plenary papers - 12 pages; invited papers - 8 pages; contributed and poster papers - 6 pages.

Sessions

The standard length of sessions will be either 2 or 2½ hours. Invited papers as well as contributed papers will all be allotted 30 minutes (incl. time for discussions). Plenary papers will be allotted 45 minutes (incl. time for questions)

Who should attend

Scientists and engineers from universities, research institutes, government organizations and industry, military and police officers and other decision makers responsible for Waterside Security in their countries. The conference will provide a forum for exchange of information on recent research and



development results, for discussion of future challenges in waterside security, and the exhibition will display the latest advances in instrumentation.

Language

The official language of the conference is English. All oral presentations and discussions will be in English, only.

The Scientific Committee of the conference includes:

- Dr. Tuncay Akal, TUBITAK , Turkey
- Professor Akira Asada, University of Tokyo, Japan
- Mr. Bob Black, Edmonton, Canada
- Professor Oleksandr Drozd, Ukraine
- RADM (ret.) Frits 't Hart, TNO, The Netherlands
- Professor David Bradley, Pennsylvania State Univ., USA
- Dr. Kirk Jenne, ONR, Washington DC, USA
- Dr. Ilkka Karasalo, FOI, Sweden
- Dr. Ronald T. Kessel, NURC, La Spezia, Italy
- Dr. Nicholas Langhorne, ONR Global, London, UK
- Academician Qihu Li, Inst. Acoustics, Beijing, China
- Dr. Carlos Miguel Sainz Luna, Grupo CIE, Mexico
- RADM Dr. Francois-Régis Martin-Lauzer, NURC, La Spezia, Italy
- Dr. Thomas Meurling, Reson Inc., USA
- Dr. Tom Neighbors, SAIC, Washington DC, USA
- Professor John Papadakis, F.O.R.T.H., Crete, Greece
- Professor Andrzej Rucinski, Univ. New Hampshire, USA
- Professor Andrzej Stepnovski, Gdansk Univ. Techn., Poland
- Dipl.-Ing. Josef Traxl, WTD71, Germany
- Dr. Giancarlo Vettori, La Spezia, Italy



The Local Organizing Committee includes:

- Professor Leif Bjørnø, Denmark
- RADM Niels Mejdal, Denmark
- Executive Vice President Kim Christiansen, Denmark

Sponsors of the conference include

- Naval Team Denmark, Denmark
- NATO Undersea Research Centre (NURC), Italy
- RESON A/S, Denmark
- TERMA A/S, Denmark
- Technical University of Denmark (DTU), Denmark
- Gdansk University of Technology, Poland
- UltraTech Holding, Denmark
- OES Japan Chapter, Japan

Plenary Lectures are being invited and will currently be advertised on the conference website, address: www.wss2008.org

The following **Structured Sessions** on topics of current interest in Waterside Security are at the moment being organized:

Underwater Harbour Security

Organizer: Dr. Tuncay Akal

tuncay.akal@yahoo.com.tr

Risk Assessment, Mitigation and Treatment in Waterside Security.

Organizer: Dr. George Baker

bakergh@cisat.jmu.edu



Harbor Environments: Physical Characteristics, Mapping and Modeling

Organizer: Professor David L. Bradley

dlb25@psu.edu

Acoustic signatures of objects on or below the seafloor and in the water column.

Organizers: Dr. Finn Jensen & Dr. Mario Zampolli

Jensen@nurc.nato.int ; Zampolli@nurc.nato.int

Security Providers: characterizing the user, civilian and military, of waterside security systems

Organizer: Ronald T. Kessel

Kessel@nurc.nato.int

Automatic Identification Systems in Waterside Security

Organizer: Mette D. Lilkær

mdl@gatehouse.dk

Radar technologies in Waterside Security

Organizers: Jens-Erik Lolck and Jens Chr. Pedersen

jel@terma.com & jcp@terma.com

Electro-optics in Waterside Security

Organizers: Jens-Erik Lolck and Jens Chr. Pedersen

jel@terma.com & jcp@terma.com

Maritime Sensors, Technology and Infrastructure in Waterside Security.

Organizer: Professor Andrzej Rucinski

Andrzej.Rucinski@unh.edu

Mapping and Imaging Systems in WSS

Organizer: Professor Andrzej Stepnowski

astep@pg.gda.pl

Integrated Systems in Waterside Security

Organizer: Josef Traxl

jtraxl@WTD71.de

Conference participants interested in presenting an invited paper on topics in the above list of Structured Sessions are encouraged to contact the specific Structured Session organizer on his/her e-mail address.



All abstracts of papers to be presented in a Structured Session must be sent to the Conference Secretariat in Copenhagen by use the template for abstracts available on the conference website. Abstracts of papers for a Structured Session must indicate to which Structured Session above they are related to.

Workshops and Panel Discussions

It is the intention to arrange a number of Workshops and/or Panel Meetings over selected topics and scenarios of current interest in Waterside Security. The following Workshop is now planned, and more workshop/panel meetings will currently be advertised on the conference website:

Roadmap and Progress towards formalizing Global Security Engineering. Organized by professor Andrzej Rucinski, University of New Hampshire, USA, as moderator.

Exhibition

An exhibition by leading international manufacturers of state-of-the-art technologies, equipment and services for Waterside Security, surveys will form an integrated part of the conference and will be arranged in the central area of the conference space. Since the conference participants include several senior decision makers in exploitation of technologies for Waterside Security as well as the top scientists in this area, the exhibition forms a very important opportunity for hardware and software manufacturers and for providers of consulting and scientific services to meet with their customers during the exhibition.

The exhibition area is located in the same space where refreshments during breaks will be available. Also the poster sessions will be held in the same area. This will give the exhibitors plenty of opportunities to make contact with customers.

Stands of various sizes are available and potential exhibitors are encouraged to contact the Conference Secretariat for a set of “**the Exhibitors Information Package**” to be e-mailed to their address. The e-mail address of the Conference Secretariat is: info@wss2008.dk



Registration information

Please register via the conference website on the address:

<http://www.wss2008.org>

Registration fees are:	<u>Before May 15th 2008</u>	<u>After May 15th 2008</u>
Full registration:	450 EUR	550 EUR
Students*:	250 EUR	300 EUR
On-site registration:		550 EUR
Accompanying persons:	60 EUR	75 EUR

*Students (incl. Ph.D. students) must present a copy of their valid student identity card issued by their university.

The full registration fee will include registration, all conference materials, a "Book of Abstracts", the conference proceedings (on a CD-ROM), the Icebreaking Party, lunches through all three conference days, the conference banquet, refreshments during coffee/tea breaks (and throughout the days).

A **registration form**, to be filled-in and automatically returned to the Conference Secretariat by pressing the "Submit registration" button, can from primo February 2008 be downloaded from the conference website. Please remember to print this registration form for your records before submission.

Accompanying persons are most welcome at the conference. The conference fee for accompanying persons will comprise admission to the ice breaking party held on Monday evening 25th August and the opening ceremony in the Morning of Tuesday 26th August. Extra tickets to the conference banquet in the evening of Tuesday 26th August will be sold at the registration desk.



Payment of conference fees

by bank transfer in Danish Kroner to the conference account with NORDEA Bank on the address:

NORDEA Bank Danmark A/S
Taastrup Afdeling
Taastrup Hovedgade 101
DK-2630 Taastrup
Denmark
Phone: +45 4399 1111

Account No.: [IBAN# DK2520005369353170](#)

SWIFT-BIC: [NDEADKKK](#)

Account holder: [WSS2008 Conference](#)

by bank cheque in Danish Kroner drawn on NORDEA Bank Danmark A/S or another Danish Bank and issued to WSS2008 Conference

or by use of one of the major credit cards, *VISA, MasterCard or American Express*, by payment via **PayPal** through use of the link to PayPal available on the "Registration" section of the conference website, address: <http://www.wss2008.org>

NOTE! Please indicate on the **Registration form** which way of payment of the conference fees has been chosen, and please make sure that your name clearly emerges on your payment.

A reduction in the registration fee for participants taking part in the conference for less than 3 days will be available. See the Registration Form to be downloaded from the conference website.

Registration acknowledgement

An acknowledgement of the receipt of the Registration Form will automatically be sent to you.



Cancellations must be advised in writing to the Conference Secretariat to be received prior to July 1st 2008 to receive **full refund** of registration fees minus an administrative charge of 100 EUR. After July 1st 2008 fees are non-refundable.

Hotels

Hotel rooms in various price classes will be available for the conference participants at attractive rates, and full information on the hotels as well as hotel booking forms can be downloaded from the following websites:

Hotels near the conference site (use destination city: *Lyngby*) can be found from the website: [here](#)

Hotels in the city centre of Copenhagen can be found from the website: [here](#)

Particular attractive rates have been offered by the ARP-HANSEN Hotel Group and bookings can be made on the Conference Website with the address: <http://www.wss2008.org/Content/Hotels.htm>

Deadline for hotel bookings in this hotel group at the rates negotiated is June 23rd 2008. When booking, please remember to mention the conference name: WSS2008 to obtain the conference rates.

Please NOTE! *Due to the tourist situation in Copenhagen in August early bookings are strongly encouraged.*

Maps of Copenhagen, Kgs. Lyngby, situated about 10 km to the North of the city centre of Copenhagen, and the Technical University of Denmark will be available on the conference website. Efficient and fast subway trains (S-trains) connect the city centre and Kgs Lyngby (transport time about 20 minutes).

The registration will take place in Building 303 of the Technical University of Denmark.

The registration desk will open on Monday, 25th August, at 14:00.

Opening hours:	25 th August:	14:00 - 18:00.
	26 th and 27 th August:	08:30 - 17:00
	28 th August:	08:30 - 14:00



The social programme

The social programme will comprise:

The ice breaking party

Monday, August 25th, from 18:00 to 20:00 at the Technical University of Denmark, Building 303, where also the registration desk can be found.

The conference banquet

Tuesday, August 26th, from 19:00 to 23:00. The place will be announced on the conference website

More information about the individual social events will currently be given on the conference website.

Tours, excursions, shopping information can be found on and booked via the following websites:

Boat trips near the conference site: www.baadfarten.dk

Copenhagen Tourist Board: <http://www.visitcopenhagen.com/>

Copenhagen Excursions (bus trips in and around Copenhagen):
<http://www.uk.cex.dk/>

Shopping near the conference site: <http://www.lyngbystorcenter.dk/>

How to reach Kgs. Lyngby and the Technical University of Denmark:

Copenhagen Airport at Kastrup is connected through international flights with most major cities in the World. Train connections between Copenhagen Airport at Kastrup, the city centre of Copenhagen and Kgs. Lyngby may be found and booked on the website: www.dsb.dk . The road distance between the airport and the Technical University of Denmark is 24.5 km and the driving time is about 25 minutes. Road maps may be downloaded on the website: <http://www.google.dk>

The Technical University of Denmark may also be reached by road from countries around Denmark. Useful road maps with instructions how to reach the university can be downloaded on the website: <http://www.google.dk>



The distance between the train station in Kgs. Lyngby and the conference venue in building 303 of the Technical University of Denmark is about 2 km. A map of roads between the two geographical locations will be available on the conference website with the address: <http://www.wss2008.org> Also information about bus transport between the locations will be available on the website.

The address of the Conference Secretariat is:

Secretariat of WSS2008
Stendiget 19
DK-2630 Taastrup
Denmark

Phone: +45 4399 5284
Fax: +45 4352 2671
e-mail: info@wss2008.dk

All available and up-to-date information on the conference and the exhibition may currently be found on the conference website with the address:

<http://www.wss2008.org>