

Fraunhofer Symposium

Future Security

3rd Security Research Conference
Karlsruhe



10th – 11th September 2008
Congress Center Karlsruhe, Germany

Conference Program



Bundesministerium
für Bildung
und Forschung

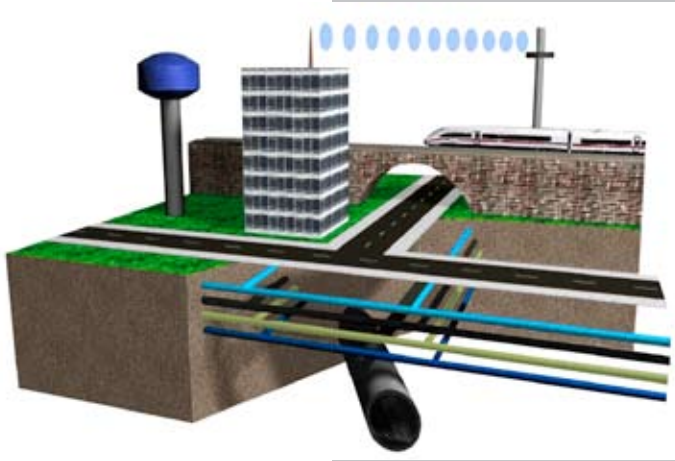


Fraunhofer

Verbund
Verteidigungs- und
Sicherheitsforschung

Future Security

3rd Security Research Conference
Karlsruhe



Conference Aim

The conference will serve as an international and interdisciplinary communication platform for decision-makers, executive bodies, economic organisations and research and development partners. The conference defines the position of key organisations and demonstrates the potential of innovative technologies and preventative research for civil security on an international level.

www.vvs.fraunhofer.de

Program Committee

- Prof. Dr. Oliver Ambacher, Fraunhofer IAF
- Bernd Bechtold, b.i.g. bechtold Ingenieurgesellschaft mbH
- Prof. Dr.-Ing. Jürgen Beyerer, Fraunhofer IITB
- Dr. Peter Boßdorf, Report Verlag GmbH
- Dr. Adam Stewart Cumming, DSTL
- OTL i.G. Armin Dirks, BMVG
- Prof. Dr. Claudia Eckert, Fraunhofer SIT
- Prof. Dr.-Ing. Peter Elsner, Fraunhofer ICT
- Prof. Dr.-Ing. Joachim Ender, FGAN FHR
- Dr. Jürgen Geisler, Fraunhofer IITB
- Dr. rer. pol. Ehrentraud Graw, Wirtschaftsministerium Baden-Württemberg
- Prof. Dr. Jürgen Grosche, FGAN FKIE
- Dr. Udo Helmbrecht, Bundesamt für Sicherheit in der Informationstechnik
- Dr.-Ing. Albert Heuberger, Fraunhofer IIS
- Paul Korting, TNO Defence
- Prof. Dr.-Ing. Stefan Levedag, Deutsches Zentrum für Luft- und Raumfahrt e.V.
- Monika Lieberam, Bundesanstalt Technisches Hilfswerk (THW)
- Dr. Stefan Mengel, BMBF
- Dr. Markku Mesilaakso, Scientific Advisory Board for Defence, Finland
- Prof. Dr. Bernd Michel, Fraunhofer IZM, ESRIF
- Dr. Joachim Schulze, Fraunhofer INT
- Dr. Klaus Schymanietz, EADS Deutschland GmbH
- Dr. Alois J. Sieber, European Commission – Joint Research Centre
- Prof. Dr. Jürgen Stock, Bundeskriminalamt BKA
- Christoph Stroschein, GESA German European Security Association
- Prof. Dr. Maurus Tacke, FGAN FOM
- Jean-Michel Tauzia, SNPE Materials Pyrotecs
- Prof. Dr. Klaus Thoma, Fraunhofer EMI
- Dr.-Ing. Stefan Tröster, Fraunhofer ICT
- Dr. Uwe Wiemken, Fraunhofer INT

Conference Chairman

Prof. Dr. Klaus Thoma,
Director Fraunhofer EMI

General Information

Online Information:

www.future-security.eu

Cancellation Policy

All cancellations after 31st August 2008 will be charged a cancellation fee. If the registrant fails to attend and no cancellation is received the full conference fee will be payable.

Room Reservation

Online reservations can be made at: www.hore-hotel-reservation.de/future_security.html

HORE Hotel Reservation,
Weingartener Str. 70,
76229 Karlsruhe, Germany
Phone: +49 721 48 23 56
Fax: +49 721 48 26 14
HoreHotelReservation@t-online.de

Venue

Stadthalle,
Congress Center Karlsruhe,
Am Festplatz
76137 Karlsruhe, Germany

Conference Office

The Conference Office is located in the foyer of the Weinbrenner-Saal. It will be open for check-in from Tuesday 9th September, 16:00, until Thursday 11th September 2008, 14:30.

Conference Language

The conference language is generally English. Simultaneous translation is available for keynotes and plenary session between German and English and vice versa.

Proceedings

The conference fee includes proceedings on a USB Flash Drive and in printed form.

Evening events

September 9th, 18:30, get together in the Congress Center Karlsruhe (included in the conference fee).

September 10th, 19:00 dinner in the Congress Center Karlsruhe.

Conference Hosts

Fraunhofer Defense and Security Alliance
Fraunhofer-Verbund
Verteidigungs- und Sicherheitsforschung

with the following Institutes:

Fraunhofer Institute for High-Speed Dynamics, Ernst-Mach-Institut, EMI
Fraunhofer-Institut für Kurzezeitdynamik
Ernst-Mach-Institut, EMI, Freiburg

Fraunhofer Institute for Applied Solid State Physics IAF
Fraunhofer-Institut für Angewandte Festkörperphysik
IAF, Freiburg

Fraunhofer Institute for Chemical Technology ICT
Fraunhofer-Institut für Chemische Technologie ICT,
Pfinztal

Fraunhofer Institute for Information and Data Processing IITB
Fraunhofer-Institut für Informations- und Datenverarbeitung
IITB, Karlsruhe

Fraunhofer Institute for Technological Trend Analysis INT
Fraunhofer-Institut für Naturwissenschaftlich-Technische Trendanalysen
INT, Euskirchen

Fraunhofer Institute for Integrated Circuits IIS
Fraunhofer-Institut für Integrierte Schaltungen IIS,
Erlangen

Organisation and Contact Address

Fraunhofer Institute for High-Speed Dynamics, Ernst-Mach-Institut, EMI

Fraunhofer-Institut für Kurzezeitdynamik
Ernst-Mach-Institut, EMI
Eckerstraße 4
79104 Freiburg, Germany
Phone +49 761 2714-0
Fax +49 761 2714-316
info@emi.fraunhofer.de
www.emi.fraunhofer.de

Prof. Dr. Klaus Thoma
thoma@emi.fraunhofer.de
Phone +49 761 2714-351

Dr. Tobias Leismann
leismann@emi.fraunhofer.de
Phone +49 761 2714-402

Conference Management

Birgit Bindnagel
PR officer
Fraunhofer Institute for High-Speed Dynamics
Ernst-Mach-Institut, EMI
Eckerstraße 4
79 104 Freiburg, Germany
Phone +49 761 2714-366
Fax +49 761 2714-1366
bindnagel@emi.fraunhofer.de
www.emi.fraunhofer.de

Exhibition Management

Roswitha Tuz
Phone +49 721 4640-403
roswitha.tuz@ict.fraunhofer.de

Program Overview

Tuesday 9th September 2008

16:00 Arrival and check-in

18:30 Get together

Wednesday 10th September 2008

09:00 Press Conference

09:45 Keynote Addresses

14:00 **Plenary Session**
Intelligent Business Models for Security Technologies

16:30 **Parallel Sessions**
Security, Business & Society | Survivability and Hardening Technologies

19:00 Evening Event

Thursday 11th September 2008

08:30 **Parallel Sessions**
Security and Space | Sensor Equipment and Sensor Technologies

10:10 **Parallel Sessions**
Video Surveillance | Sensor Equipment and Sensor Technologies

11:30 **Parallel Sessions**
Signal and Information Technologies | BMBF CBRNE Projects

13:30 Postersession

14:30 **Parallel Sessions**
Risk and Vulnerability Analysis for Critical Infrastructures | Technologies Applied

16:00 **The increasing threat by Islamic terrorism: terror danger in Germany**
Elmar Theveßen

Program Tuesday 9th September 2008

16:00 Arrival and check-in

18:30 Get together



Program Wednesday 10th September 2008

09:00 Press Conference

Keynotes Keynote Addresses

Chair: Prof. Dr. Klaus Thoma
Fraunhofer Institute for High-Speed Dynamics,
Ernst-Mach-Institut, EMI

09:45 **Prof. Dr.-Ing. Hans-Jörg Bullinger**
President of the Fraunhofer Gesellschaft, Germany

10:10 **MinDir Dr. Wolf-Dieter Lukas**
Director General, Federal Ministry for Education &
Research BMBF, Germany

10:35 **Hon. Jay M. Cohen**
Under Secretary, Science and Technology Directorate,
U.S. Department of Homeland Security

11:00 *Coffee Break*

11:30 **Dr. Jacqueline Lecourtier**
Directeur général de l'Agence Nationale de la
Recherche, France

11:55 **Prof. Dr. jur. Jürgen Stock**
Vice President of the Federal Office of Criminal
Investigation (BKA), Germany, and Vice President of the
European Security Research and Innovation Forum (ESRIF)

12:20 **MinDir Dipl.-Phys. Dirk Ellinger**
Director of Armaments, Federal Ministry of
Defence BMVg, Germany

12:45 *Lunch*

Program Wednesday 10th September 2008

Plenary Session Intelligent Business Models for Security Technologies

Chair: Prof. Dr. Dr. h.c. mult. Rolf Stober
Universität Hamburg, Head of the Research Center
Private Security Services (FORSI)
Prof. Dr.-Ing. Jürgen Beyerer
Fraunhofer Institute for Information and
Data Processing IITB

14:00 New security thinking in a technology-coined
security state – On public and private responsibility
for security technology
Prof. Dr. Dr. h.c. mult. Rolf Stober
Universität Hamburg, Head of the Research Center
Private Security Services (FORSI)

14:30 Security and safety engineering between market-
penetration and economic law
Univ.-Prof. Dr. jur. habil. Wolfgang B. Schönemann
TU Dortmund, Chair in Civil Law

15:00 Standardization and Standards in Security Research
and Emerging Security Markets
Prof. Dr. Knut Blind
TU Berlin, Fraunhofer Institute for Systems and
Innovation Research ISI

15:30 Intelligent business models from a
corporate perspective
Gregor Lehnert
Acting Partner Lehnert Consulting GmbH

16:00 *Coffee Break*

Program Wednesday 10th September 2008

Parallel Session Security, Business & Society

Chair: Dr. Klaus Schymanietz
EADS Deutschland GmbH

16:30 Protection of Critical Infrastructure - Lessons learnt during the FIFA Worldchampionship
Dr. Norbert Klöpfer
Bruker Daltonik GmbH

16:50 Threats, Risk and Vulnerability of Urban Society
Prof. Dr. Bo Janzon
SECRAB Security Research

17:10 Cooperative Measures as a Basis for Risk Management
Dr. Kalle Koskivirta
City of Helsinki, Safety and Preparedness
Coordinating Division

17:30 Managing Insecurity in Open Societies:
Preparing for the „Unexpected“ Expectably to Happen
Prof. Dr. Holger H. Mey
EADS Deutschland GmbH

19:00 Evening Event

Program Wednesday 10th September 2008

Parallel Session Survivability and Hardening Technologies

Chair: Albert van der Steen
TNO Defence, Security and Safety

16:30 Security of Bridges and Tunnels in the Course of Roads
Prof. Dr. Jürgen Krieger
Bundesanstalt für Strassenwesen (BASt); Federal
Highway Research

16:50 SECURITY SCRAPER - A Comprehensive Concept for
Future High-Rise-Buildings
Markus Nöldgen
Schüßler-Plan Consulting Engineers Ltd.

17:10 Safety of Structures – An Integrative Approach for
Terroristic and Natural Hazards
Univ. Prof. Dr.-Ing. habil. Norbert Gebbeken
University of the Federal Armed Forces Munich

17:30 BLASTWALL – Development and Validation of an
Integrated Masonry Wall Concept against Blast Loads
Dr. Werner Riedel
Fraunhofer Institute for High-Speed Dynamics,
Ernst-Mach-Institut, EMI

17:50 Explosion Vulnerability Assessment for City Infrastructure
Dr. Jaap Weerheijm
TNO Defence, Security and Safety

19:00 Evening Event

Program Thursday 11th September 2008

Parallel Session Security and Space

Chair: Dr. Uwe Wiemken
Fraunhofer Institute for Technological Trend Analysis INT

08:50 Near term space applications for civil security
Dr. Gerd Hofschuster
OHB-System AG

09:10 The Role of Space in modern Crises Management
Rüdiger Koppe
ASTRIUM GmbH

09:30 Situational Awareness in Urban Areas using
Space borne SAR
Dr. Bert van den Broek
TNO Defence, Security and Safety

09:50 *Coffee Break*

Parallel Session Video Surveillance

Chair: Dr. Jürgen Geisler
Fraunhofer Institute for Information and Data
Processing IITB

10:10 Next Generation Video Surveillance Systems
Prof. Dr.-Ing. Jürgen Beyerer
Fraunhofer Institute for Information and Data
Processing IITB

10:30 Evaluation of Video Based Event Detection and
Tracking – A UK Government Standard
Adam Nilski
Home Office Scientific Development Branch,
i-LIDS Team

10:50 Video Event Analysis Framework
Prof. Dr. Andrzej Czyzewski
Gdansk University of Technology, Faculty of
Electronics, Telecom

11:10 *Coffee Break*

Program Thursday 11th September 2008

Parallel Session Sensor Equipment and Sensor Technologies

Chair: Prof. Dr. Oliver Ambacher
Fraunhofer Institute for Applied Solid-State Physics IAF

08:50 High-energy X-ray Inspection of Freight Containers
and Air Cargo
Dr. Theobald Fuchs
Fraunhofer-Entwicklungszentrum Röntgen-
technik EZRT

09:10 High Performance MMICs and Modules for Use in
Advanced Safety and Security Systems
Sébastien Chartier
Fraunhofer Institute for Applied Solid-State Physics IAF

09:30 New mm-wave Sensors for non-invasive Person
Checking and Luggage Inspection
Prof. Dr.-Ing. Joachim Ender
FGAN-FHR

09:50 *Coffee Break*

Parallel Session Sensor Equipment and Sensor Technologies continued

Chair: Prof. Dr. Oliver Ambacher
Fraunhofer Institute for Applied Solid-State Physics IAF

10:10 Sensor Equipment and Sensor Technologies for
Detection Biological, Chemical and Explosive Threats
Dr. Richard Arning
EADS Deutschland GmbH

10:30 Imaging Backscattering Detection of Explosives by
using Mid-infrared Quantum Cascade Lasers
Dr. Frank Fuchs
Fraunhofer Institute for Applied Solid-State Physics IAF

10:50 Molecularly imprinted Polymers as Substance Selective
Coatings for low Cost Sensors capable of Detecting
Explosives
Dr. Gudrun Bunte
Fraunhofer Institute for Chemical Technology ICT

11:10 *Coffee Break*

Program Thursday 11th September 2008

Parallel Session Signal and Information Technologies

Chair: Dr.-Ing. Albert Heuberger
Fraunhofer Institute for Integrated Circuits IIS

11:30 Results of Optical Detection Trials in
Harbour Environment
Dr. Miranda van Iersel
TNO Defence, Security and Safety

11:50 Secure Model Driven Information Exchange
Rudolf Schreiner
ObjectSecurity Ltd.

12:10 Integration of Sensors and Information Services
to Protect Critical Infrastructures
Dr. Kym Watson
Fraunhofer Institute for Information and Data
Processing IITB

12:30 *Lunch*

13:30 - 14:30 **Postersession**

Program Thursday 11th September 2008

Parallel Session BMBF CBRNE Projects

Chair: Dr. Thorsten Fischer
VDI Technology Centre GmbH
Project executing organization BMBF

11:30 EXAKT – Joint BMBF Research Project:
Near Real-Time Trace Analysis of Airborne Chemical
Warfare Agents and Explosives
Dr. Gerhard Horner
Five technologies GmbH

11:50 BiGRUDI – Risk Assessment, ultra-rapid Detection
and Identification of Bioterroristic Threat Agents
Dr. Heinz Ellerbrok
Robert Koch Institute, Centre for Biological Safety

12:10 TEKZAS – Terahertz Technology for Stand-Off
Detection of Explosives
Prof. Dr. René Beigang
Fraunhofer Institute for Physical Measurement
Techniques IPM

12:30 *Lunch*

13:30 - 14:30 **Postersession**

Program Thursday 11th September 2008

Parallel Session Risk and Vulnerability Analysis for Critical Infrastructures

Chair: Univ. Prof. Dr.-Ing. habil. Norbert Gebbeken
University of the Federal Armed Forces Munich

14:30 Resilient IT Facilities
Gerhard Bosch
IBM Deutschland GmbH

14:50 Hazards, Losses and Risks of Critical Infrastructures
Prof. Dr.-Ing. Lothar Stempniewski
cedim AG

15:10 Sensor Based Real-Time Situation Awareness of Critical Infrastructure
Dr. Werner Riedel
Fraunhofer Institute for High-Speed Dynamics, Ernst-Mach-Institut EMI

15:30 Layer of Protection Analysis
Vincent van den Hoogenband
TNO Defence, Security and Safety

16:00 - 16:30 The increasing threat by Islamic terrorism: terror danger in Germany
Elmar Theveßen
ZDF Deputy Editor-in-Chief and Head of News, Terrorism Expert

Program Thursday 11th September 2008

Parallel Session Technologies Applied

Chair: Prof. Dr.-Ing. Peter Elsner
Fraunhofer Institute for Chemical Technology ICT

14:30 Inference of Vessel Behaviour in the Dutch Coastal North Sea
Dr. Arthur Smith
TNO Defence, Security and Safety

14:50 Harbour Protection Effects in the Above and Under-water Environment – Gaps and selected Solutions
Willi Hornfeld
ATLAS ELEKTRONIK GmbH

15:10 Self-Protection Systems for Commercial Aircraft for Increasing Aircraft's Safety
Monika Świech
Bumar sp. z o.o.

15:30 Standardisation in Security Technologies
Andre Hermanns
TU Berlin

16:00 - 16:30 The increasing threat by Islamic terrorism: terror danger in Germany
Elmar Theveßen
ZDF Deputy Editor-in-Chief and Head of News, Terrorism Expert

Poster

Poster 1 **Molecularly imprinted polymers as substance selective coatings for low cost sensors capable of gas phase detection of explosives**
G. Bunte, J. Hürttlen, D. Röseling, H. Pontius, K. Hartlieb, M. Heil, H. Krause
Fraunhofer Institute for Chemical Technology ICT, Germany

Poster 2 **The Weighted-Bit Assessment Table of Hazardous Chemicals**
J. Burbiel, S. Grigoleit, J. Schulze
Fraunhofer Institute for Technological Trend Analysis INT, Germany

Poster 3 **Optimization of the Operational Picture Used in Security Applications**
R. Bürgi
W+T armasuisse, Switzerland

Poster 4 **Ultra wideband radar for through wall detection from the RADIOTECT project**
S. Crabbe, M. Aftanas, P.-A. Berthlin, M. Drutarovský, R. Klukas, D. Kocur, T. T. Nguyen, P. Peyerl, J. Rovňáková, J. Sachs, E. Zaikov
Crabbe Consulting Ltd Branch Office Germany

Poster 5 **The Effect of Turbulent Atmosphere on Optical Reconnaissance from Satellites**
K. Darée, S. Cheinet
French-German Research Institute Saint-Louis (ISL), France

Poster 6 **Development of Liquid Identifier based on Hilbert Spectroscopy in Microwave and Terahertz Ranges**
Y. Divin, M. Lyatti, U. Poppe, K. Urban
Institute of Solid State Research, Research Centre Jülich, Germany

Poster 7 **Object Oriented Environment Model for Video Surveillance Systems**
I. Gheta, T. Emter, J. Beyerer
Fraunhofer Institute for Information and Data Processing IITB, Germany

Poster

Poster 8 **Decision Support for Object Recognition from Multi-Sensor Data**
A. Bauer, J. Geisler
Fraunhofer Institute for Information and Data Processing IITB, Germany

Poster 9 **Concept for an interdigital capacitor combined with molecularly imprinted polymers as selective layer**
J. Hürttlen, G. Bunte, D. Röseling, H. Krause, H.-E. Endres, K. Neumeier, K. Bock
Fraunhofer Institute for Chemical Technology ICT, Germany

Poster 10 **Remote Raman detection of trace explosives**
P. Jander, R. Noll
Fraunhofer Institute for Laser Technology ILT, Germany

Poster 11 **High-energy X-ray inspection of freight containers and air cargo**
F. Sukowski, N. Uhlmann, T. Fuchs, P. Keßling
Fraunhofer Development Center for X-Ray Technology, Germany

Poster 12 **Rule Based Support System for Multi Sensor Surveillance**
S. Leuchter, T. Partmann, L. Berger
Fraunhofer Institute for Information and Data Processing IITB, Germany

Poster 13 **Architecture Repository for Security Related ICT Landscapes**
S. Leuchter
Fraunhofer Institute for Information and Data Processing IITB, Germany

Poster 14 **N.E.S.T. - Network Enabled Surveillance and Tracking - Towards Next Generation Surveillance Systems**
A. Bauer, S. Eckel, T. Emter, A. Laubenheimer, E. Monari, J. Moßgräber, F. Reinert
Fraunhofer Institute for Information and Data Processing IITB, Germany

Poster

- Poster 15** **Passive imaging technology for the protection of critical infrastructures**
M. Peichl, S. Dill, M. Jirousek, H. Süß
DLR, Microwaves and Radar Institute, Germany
- Poster 16** **Detection of concealed radioactive and nuclear materials in situ**
W. Rosenstock, W. Berky, S. Chmel, H. Friedrich, T. Köble
Fraunhofer Institute for Technological Trend Analysis INT, Germany
- Poster 17** **OFDEX - Optical Stand-off Detection of Explosives and Improvised Explosive Devices**
F. Fuchs, J. Wagner, F. Schnürer, H. Krause, P. Jander, R. Noll, J. Hildenbrand, A. Lambrecht
Fraunhofer Institute for Chemical Technology ICT, Germany
- Poster 18** **The Project SAFE XUV - Trace Detection of security relevant Substances within complex Matrices**
E. Schramm, A. Goertler, M. Puetz, R. Schultze, M. Sklorz, A. Ulrich, J. Wieser, R. Zimmermann et al.
Helmholtz Zentrum München, Germany
- Poster 19** **A Dispersion Model for CBRN Agents in Complex Critical Infrastructure Buildings**
G. Sdouz, R. Mayrhofer
Austrian Research Center GmbH - ARC, Austria
- Poster 20** **Underground transport of dangerous goods**
A. van der Heijden, A. van den Berg, M. Tummers, S. Wijnant-Timmermans, I. Trijssenaar-Buhre
TNO Defence, Security and Safety, Netherlands
- Poster 21** **Recognition of aircrafts using HRR radar features**
S. Kossen
TNO Defence, Security and Safety, Netherlands

Poster

- Poster 22** **Creating shared situation awareness in a multi-platform sensor network**
M. van Iersel
TNO Defence, Security and Safety, Netherlands
- Poster 23** **Reconstruction of an incident using video images and 3D models**
M. van Iersel, J. Bijhold, G. Edelman, T. ten Kate
TNO Defence, Security and Safety, Netherlands
- Poster 24** **Optical sensor for stand off detection of explosives vapors**
S. Bobrovnikov, E. Gorlov, V. Losev, Y. Panchenko, G. Sakovich, A. Vorozhtsov, E. Maksimov
Institute for Problems of Chemical and Energetic Technologies, Russia
- Poster 25** **Bispectral infrared detectors for aircraft security**
M. Walther, R. Rehm, J. Fleissner, J. Schmitz, F. Rutz, R. Scheibner, J. Ziegler
Fraunhofer Institute for Applied Solid-State Physics, IAF, Germany
- Poster 26** **The Space Debris Collision Risk for Satellite**
C. Wiedemann, S. Stabroth, S. Flegel, P. Vörsmann
Institute of Aerospace Systems, TU Braunschweig, Germany
- Poster 27** **National security research project SKRIBT - Development of a holistic methodology for the determination of effective protection measures for critical bridges and tunnels**
F. Heimbecher, I. Kaundinya
Bundesanstalt für Strassenwesen (BASt); Federal Highway Research, Germany
- Poster 28** **Technology roadmap of security research**
M. Jenu, V. Rouhiainen
VTT Technical Research Centre of Finland, Finland

Poster 29 **HYBASE - HYPerspectral BAnd SElection tool**
P. B.W. Schwering, H. H.P.Th. Bekman, H. H. van Seijen
TNO Defence, Security and Safety, Netherlands

Poster 30 **A semiconducting metal oxide sensor array for explosive detection**
O. Tolbanov, O. Anisimov, K. Arkhipova
Tomsk State University, Russia
A. Reznev, G. Sakovich, A. Vorozhtsov
Institute for Problems of Chemical and Energetic Technologies SB RAS, Russia
M. Krausa
Fraunhofer Institute for Chemical Technology ICT, Germany

Poster 31 **Bomb Blast Resistance Retrofit of Buildings**
M. Henneberg
HAVERKAMP GmbH, Germany

Poster 32 **Real-time Liquid Detection for Checkpoint Applications**
N. Klein, S. Vitusevich, H. Rongen
Institute of Solid State Research, Research Centre Jülich, Germany

Poster 33 **Prediction of injuries from blast loaded windows**
J. Weerheijm, M. van der Horst, A. van Doormaal, M. van der Voort, H. Broos
TNO Defence, Security and Safety, Netherlands



9. September 2008, Kongresszentrum Karlsruhe

Forschung für die zivile Sicherheit

Workshop Detektionssysteme für CBRNE-Gefahrstoffe

Am 9. September 2008, 10-20 Uhr, veranstaltet das Bundesministerium für Bildung und Forschung einen Workshop aller im Sicherheitsforschungsprogramm geförderten Projekte zum Thema Detektionssysteme für CBRNE-Gefahrenstoffe.

Das BMBF fördert zu diesem Themenschwerpunkt 18 Verbundprojekte, insgesamt 90 Partner sind daran beteiligt. In den Projekten wird ein breites Spektrum neuer Verfahren und Methoden zur Detektion gefährlicher Substanzen entwickelt. Erklärtes Ziel ist dabei der schnellere, sicherere und mobile Nachweis der Gefahrstoffe. Ein besonderes Augenmerk gilt auch ethischen, rechtlichen und psychologischen Fragen zum Einsatz dieser Technologien.

Die Projekte zum Aufspüren biologischer Gefahrstoffe stellen die frühzeitige und zuverlässige Erkennung biologischer Erreger als Ursache von Seuchen oder Epidemien in den Mittelpunkt. Außerdem liegt ein Schwerpunkt auf der Detektion gesundheitsbedrohlicher Kontaminationen im Trinkwasser. Weitere Projekte beschäftigen sich mit praxistauglichen, portablen Detektionssystemen für toxische Stoffe oder Explosivstoffe, Vor-Ort-Analysemethoden zur Untersuchung verdächtiger Gegenstände sowie mit Nachweissystemen für Kampfstoffe. Darüber hinaus erforschen Projekte zur Terahertz-Technologie deren Nutzung für sicherheitstechnische Anwendungen.

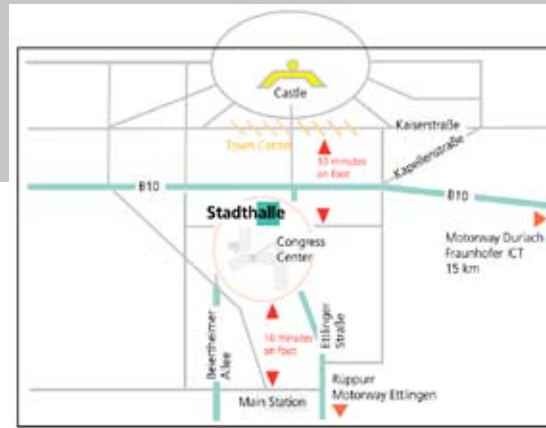
Weitere Informationen und Anmeldung:
VDI Technologiezentrum GmbH
Dr. Joachim Fröhlingdorf
Tel: 0211-6214-508, froehlingdorf_j@vdi.de

GEFÖRDERT VOM



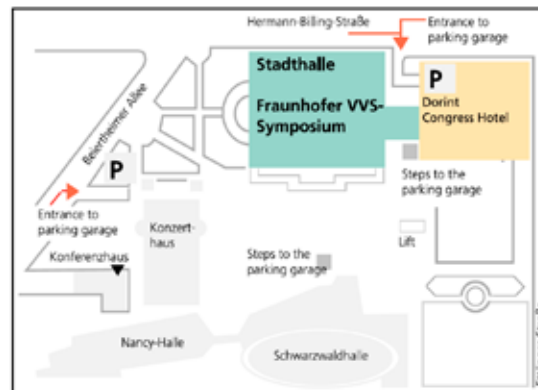
Bundesministerium
für Bildung
und Forschung

Location



Karlsruhe is situated 120 km south of Frankfurt am Main Airport and can be reached directly via the A5 motorway. You can also travel to Karlsruhe by train on the Intercity Express (ICE). The following airports are also in the region:

- Baden Airport Karlsruhe (approx. 40 km)
- Stuttgart Airport (approx. 80 km)
- Strasbourg Airport/France (approx. 100 km)



Within Karlsruhe:

By tram

- | | |
|-------------------------------|----------------------|
| – Main Station (Hauptbahnhof) | Linie S1, S4, S11, 2 |
| – Town Center | S1, S4, S11, 2 |
| – Durlacher Tor | S4, 2 |

By car

Follow signs to the „Kongresszentrum“ (Congress Center).