The 16th International Personal Armour Systems Symposium

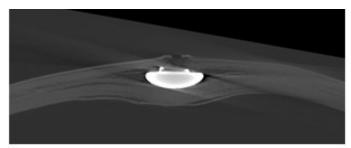
September 11-15, 2023 | Maritim Hotel and Conference Centre | Dresden | Germany

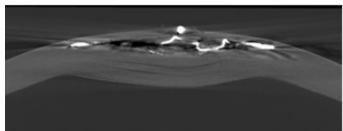
# Programme

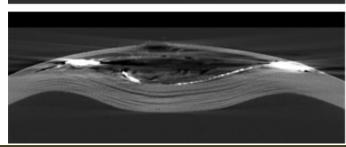
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Terms and Conditions

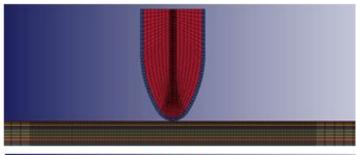
as of August 31st, 2023

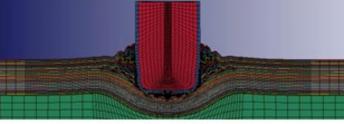








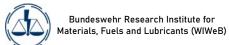






The Personal Armour Systems Symposium 2023 is organized by:







### The 16th International Personal Armour Systems Symposium

September 11-15, 2023 | Maritim Hotel and Conference Centre | Dresden | Germany

#### About PASS 2023:

The International Personal Armour Committee (IPAC) is pleased to announce that PASS 2023 is hosted for the second time in Germany, at the Maritim International Hotel and Conference Centre in the City of Dresden, the capital of the federal state of Saxony. PASS 2023 will offer an outstanding opportunity for the exchange of views and experiences in the field of personal armour systems in an operational environment.

<u>PASS</u> is the only scientific symposium exclusively dedicated to the personal protection that brings together technical experts and scientists in that field. It provides a unique opportunity:

- to interact with key players in this field of activities
- to discuss the scientific and technological challenges
- to discover the latest technical and commercial innovations

PASS 2023 will be the 16<sup>th</sup> in a series of symposia, which began at SCRDE in Colchester, UK.

PASS Symposia have been traditionally hosted by different countries every 2 years since 1990. The massive participation from North America has encouraged alternating the venue between the regions. The last Symposium in 2021 took place in Copenhagen, Denmark. The PASS Conferences attract attendees from countries around the world.

Experts will share the results of the latest research and discussions will allow inputs from participants. Attendees will include representatives from defence and academic research organizations, industry, military and police forces.

Symposium subjects include personal protection, military and police body armour, helmets, EOD protection and associated medical implications. In conjunction with the symposium, there will be an industry area to allow the discussion, illustration and promotion of ideas and equipment from our sponsors and exhibitors.





# The 16th International Personal Armour Systems Symposium

September 11-15, 2023 | Maritim Hotel and Conference Centre | Dresden | Germany

### The Symposium 2023

About the PASS Symposia	Page 2
Programme Committee 2023	Page 3
Programme on Monday, September 11	Page 4
Programme on Tuesday, September 12	Page 5
Poster Sessions on Tuesday, September 12	Page 7
Programme on Wednesday, September 13	Page 9
Programme on Thursday, September 14	Page 12
Programme on Friday, September 15	Page 15
Terms and Conditions for Visitors	Page 17
Terms and Conditions for Exhibitors	Page 18
Notes / Liability	Page 19

### The International Personal Armour Committee



Ministry of Defence, Netherlands Lt. Colonel IMM Frederik Coghe, Dr Ir (Treasurer)

Royal Military Academy, Belgium

CDR M.D. Peter Knudsen (Vice-Chair) University of Southern Denmark

Ana Ferreira Azevedo, PhD (Dep Treasurer) Royal Military Academy, Belgium

Warren Tam (Secretary)

Defence Science and Technology Laboratory, UK

Simon Ouellet (CM)

Def. Research and Development, Canada

Colonel M.D. Nicolas Prat, PhD (CM)

Franck Barbillon (CM)

Heiner Gedon (CM)

Netherlands

Australia

Ministère des Armées, France

Phil Gotts Consulting Ltd, UK

Ir. Mat Philippens, MSc (EM)

Ulf Arborelius, PhD (CM)

Janet Ward (EM)

USA

Karolinska Institutet. Sweden

Chris Ellis, Committee Member (CM)

Defence Science and Technology Group,

\*

Armed Forces Biomedical Res. Institute, France

Lt. Colonel Dr. Steffen Grobert (CM) Bundeswehr Hospital Berlin, Germany

Bundeswehr WIWeb Institute, Germany

Phil Gotts, Emeritus Member (EM) Prof. Dr. Naresh Bhatnagar, FNAE (CM)

Indian Institute of Technology Delhi, India

Bernt B. Johnsen PhD (CM)

Norwegian Defence Research Establishment,

Norway

Philippe Drapela (CM)

MoD Switzerland

Michael Maffeo (CM)

Combat Capabilities Development Command, USA



# The 16th International Personal Armour Systems Symposium

September 11-15, 2023 | Maritim Hotel and Conference Centre | Dresden | Germany

### Programme on Monday, September 11

- 12:00 Arrival of the Participants | Hotel Check-In
  Time for lunch at the hotel or in the surrounding area (not included in the PASS Conference)
- 13:00 Conference Check In | Opening of the Exhibition | Welcome Coffee
- 15:00 Welcome to PASS 2023

Colonel (ret.) Bernd Kögel\*

\*Managing Director of SGW

Hein Jager\*

\*Chairman of the International Personal Armour Committee

Lt. Colonel Dr. Steffen Grobert\*

\*Bundeswehr Hospital Berlin, Chairman of PASS 2023

15:20 Key Note DEU MoD

Vice Admiral Carsten Stawitzki\*

\*Head of Unit Procurement, German Federal Ministry of Defence

15:50 War in Ukraine: feedback on the lessons observed by the French Gendarmerie

Dr. Guillaume Visseaux\*

\*French Gendarmerie Forensic Institute

16:20 Operations Requirements for Personal Protection Branch

Colonel (GS) Oliver Juncker\*

\*Branch Chief II 3.3., Bundeswehr Planning Office

16:50 Closing remarks Day 1

Lt. Colonel Dr. Steffen Grobert

- 17:00 Networking / Beercall in the Exhibition Area
- 17:30 Walking Dinner in the Exhibition Area
- 20:00 End of the first Day



### The 16th International Personal Armour Systems Symposium

September 11-15, 2023 | Maritim Hotel and Conference Centre | Dresden | Germany

### Programme on Tuesday, September 12

08:00 Conference Counter Opens

08:15 Opening of the Exhibition Welcome Coffee Served

### Test Standards and Methods of Assessment (I)

Chaired by: Phil Gotts (IPAC) / Jon Russel (MoD UK)

- 09:00 Ballistic Assessments of the ARL Reusable Temperature Insensitive Clay (ARTIC) as a Ballistic Backing Material Jared Gardner\*, Jose Cora Cruz, Randy Mrozek, Jakob Hopping, Eric Beaudoin
  \*United States Army Aberdeen Test Center, United States of America
- 09:25 Data Filtering for the Analysis of Biological Tests for Behind Armor Blunt Trauma Studies Alok Shah\*, Justin McMahon, Joost Op 't Eynde, Rob Salzar, Blake Johnson, Joe McEntire \*Medical College of Wisconsin, United States of America
- 09:50 Development of a physical human thorax surrogate dedicated to blunt ballistic impacts

  Martin Chaufer\*, Rémi Delille, Franck Lauro, Olivier Mauzac, Sebastien Roth

  \*Interdisciplinary Laboratory Carnot of Bourgogne, France
- 10:15 Increasing Confidence in the Performance of Ballistic-resistant Shields

  Brandon Bertsch\*, Casandra Robinson, Jeffrey Horlick, Nicholas Roberts

  \*Oregon Ballistics Laboratory, United States of America
  - 10:40 Coffee Break
    Coffee and Snacks in the Exhibition Area



# The 16th International Personal Armour Systems Symposium

September 11-15, 2023 | Maritim Hotel and Conference Centre | Dresden | Germany

Programme on Tuesday, September 12

#### **Behind Armour Blunt Trauma**

Chaired by: Bernt Johnson (IPAC) / Karin Rafaels (USARL)

- 11:20 Scaling animal to human injury response for use in improved behind armor blunt trauma injury criteria Joost Op 't Eynde\*, Alok Shah, Justin McMahon, Brian Stemper, B Joseph McEntire, Dale Bass
  \*Duke University, United States of America
- 11.45 **Behind Armour Effects for Overmatch Threats**Ana Azevedo\*, Joachim Dhaenens, Angel Miranda-Vicario, Frederik Coghe
  \*Royal Military Academy of Belgium
- 12:10 Injury risk functions for behind armour blunt trauma based on clay backing cavity volume and depth Gilles Pageau\*, Simon Ouellet, Amal Bouamoul

  \*Defence Research and Development, Canada
  - 12:35 Introduction to the social evening program
  - 12:40 Lunch Break
    Drinks and Lunch in the Exhibition Area
  - 14:00 Introduction to the Poster Sessions / Speakers' Corners in the Plenum
  - 14:30 Parallel Poster Sessions / Speakers' Corners 1 12 (see next page)
  - 16:00 End of Program / get ready for the Guided Tour
  - 16:30 Guided City Tour starting at the Hotel Main Entrance ending at the "Weiße Flotte".
  - 18:30 Ship Tour / Light Dinner
    Ship departs 19:00 on "Weiße Flotte" Port at Elbe River
    22:00 Ship returns, Walk to the Hotel / End of the 2nd Day



### The 16th International Personal Armour Systems Symposium

September 11-15, 2023 | Maritim Hotel and Conference Centre | Dresden | Germany

Poster Presentations on Tuesday, September 12

Each poster will be presented four times (14:30-14:45 | 14:50-15:05 | 15:10-15:25 | 15:30-15:45), so that each visitor may go to his Top-4-Posters.

Posters will remain available for individual discussions until the end of the conference.

Poster 1:

An Alternative Method for Determining Penetration Limit Velocities Using Residual Velocity Data

**Kenneth Hohnecker\***, Christopher Drake

\*U.S. Army Combat Capabilities Development Command, United States of America

Poster 2:

Beyond V<sub>50</sub>: A More Comprehensive and Efficient Methodology for Assessing Armour Performance

Stéphane Magnan\*, Gilles Pageau, Amal Bouamoul

\*Biokinetics and Associates Ltd., Canada

Poster 3:

Comparison of dynamic and static backface deformation measures

Kathryn Loftis\*, David Barnes

\*US Army Futures Command, DEVCOM Analysis Center, United States of America

Poster 4:

Development of a new thoracic surrogate for KENLW and BABT impacts

Anca Andrei\*, Cyril Robbe, Thomas Penders, Alexandre Papy

\*Royal Military of Belgium

Poster 5:

**Helmet Standoff Variation on Human Head** 

Erika Matheis\*, Karin Rafaels

\*Bennett Aerospace, United States of America

Poster 6:

Impact of mechanical stress on ballistic performance of body armor materials

Christian Boettger\*, Marcin Dombrowski, Marc Fietkau, Henk Knoester, Rob Woudman, Richie Delmont

\*Teijin Aramid, Germany



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September 11-15, 2023 | Maritim Hotel and Conference Centre | Dresden | Germany

Poster Presentations on Tuesday, September 12



Two ballistic test methods combined; residual energy method and digital image correlation (REM/DIC)

F. M. Creusen\*, E. P. Carton, E. van Zeijl, M. Vozarova, E. Neubauer

\*TNO Laboratory for Ballistic Research, Netherlands



Shock Tube Size Considerations for Headbourne Personal Protective Equipment: A Computational Sensitivity Study

Alexander Iwaskiw\*, Michael Baker, Rubbel Kumar, Vanessa Alphonse, Quang Luong, David Drewry

\*The Johns Hopkins Applied Physics Laboratory, United States of America

### Poster 9:

Testing light weight personal protection against sand particles

A. Miranda-Vicario\*, A. Azevedo, F. Coghe

\*Royal Military Academy of Belgium, Department of Weapon Systems and Ballistics, Belgium

#### Poster 10:

The Fundamental Limitations of Clay for Assessing Human Response for Behind Armour Blunt Trauma

Joost Op 't Eynde\*, Derek Y. Pang, Robert S. Salzar, Timothy B. Bentley, Barry S. Shender, Cameron R. Bass

\*Duke University, United States of America

#### Poster 11:

V<sub>50</sub> instead Vproof for highly protective EOD PPE when facing cost/panel limitations

Jean-Philippe Dionne\*, Clint Hedge, Aris Makris

\*Med-Eng Holdings, Canada

#### Poster 12:

Injuries and operational implications caused by behind armour blunt trauma across various impact locations

Caroline Howes\*, Edward Mazuchowski, Andrew Rohrer, Matthew Clark, Nicholas Tsantinis, Quang Luong

\*The Johns Hopkins University Applied Physics Laboratory, United States of America



# The 16th International Personal Armour Systems Symposium

September 11-15, 2023 | Maritim Hotel and Conference Centre | Dresden | Germany

### Programme on Wednesday, September 13

08:00 Conference Counter Opens

08:15 Opening of the Exhibition Welcome Coffee Served

#### Blast Injury and Mitigation (I)

Chaired by: Simon Ouellet (IPAC) / Matthias Sköld (Karolinska Institutet, Sweden)

09:00 Introductory Presentation

Development of Military Loading Exposure Guidelines for Prevention of Chronic Traumatic Encephalopathy *Mattias Sköld\**,

\*Karolinska Institutet, Sweden

09:25 Test methodology for evaluating thoracic personal protective equipment against blast loading Johanna Boutillier\*, Sébastien de Mezzo, Nicolas Prat, Pascal Magnan, Pierre Naz

\*French German Research Institute of Saint Louis, France

09:50 Computational Assessment of Headborne Equipment: Alteration of Head and Neck Biomechanics During Blast-Induced Accelerative Loading Melissa Yates\*, Marshall Tumperi, Michael Lapera, Krithika Balakrishnan, Emily Crane, Griffin Holt

\*The Johns Hopkins University Applied Physics Laboratory, United States of America

10:15 Effects of torso and head protection from blast overpressure on intracranial biomechanics

Nicolas Prat\*, Aliénor Bardin, Michael Ogier, Sébastien De Mezzo, Vénétia Cardona, Pierre Naz, Johanna Boutillier, Pascal Magnan

\*French Armed Forces Biomedical Research Institute

10:40 Coffee Break

Coffee and Snacks in the Exhibition Area



### The 16th International Personal Armour Systems Symposium

September 11-15, 2023 | Maritim Hotel and Conference Centre | Dresden | Germany

Programme on Wednesday, September 13

#### **Behind Helmet Blunt Trauma**

Chaired by: Steffen Grobert (IPAC) / Narayan Yoganandan (Medical College of Wisconsin, USA)

- 11:20 BHBT Impactor Classification using Machine Learning
  Stéphane Magnan\*, Ed Fournier, Nicholas Shewchenko, Simon Ouellet
  \*Biokinetics and Associates, Canada
- 11.45 Loads associated with behind helmet blunt trauma: Matched-pair load sensing head form tests correlated with skull fracture severity Alexander Iwaskiw\*, Caroline Howes, Rahul Hingorani, Connor Bradfield, Edward Mazuchowski, Matthew Clark

  \*The Johns Hopkins Applied Physics Laboratory, United States of America
  - 12:35 Lunch Break
    Drinks and Lunch in the Exhibition Area



### The 16th International Personal Armour Systems Symposium

September 11-15, 2023 | Maritim Hotel and Conference Centre | Dresden | Germany

Programme on Wednesday, September 13

#### Test Standards and Methods of Assessment (II)

Chaired by: Peter Knudsen (IPAC) / Eluned Lewis (UK)

- 14:00 Edge Performance of Ballistic Helmets
  Paul Fenne\*, Phil Gotts,
  \*Phil Gotts Consulting, United Kingdom
- 14:25 **NIJ Standards for Ballistic Resistance of Body Armor and Stab Resistance of Body Armor: New Developments** *Mark E. Greene\**, *Jeffrey Horlick, Daniel A. Longhurst, Lance L. Miller, Casandra Robinson, Richard A. Sundstrom*\*National Institute of Justice, United States of America
- 14:50 Raising the Standards for Protective Equipment used by Public Order Police Officers

  Daniel Longhurst\*, Casandra Robinson, Brian Montgomery, Jeffrey Horlick, Ryan Schauf, Robert Kinsler

  \*RTI International, United States of America
- 15:15 The effect of backing methods on the measured ballistic performance of armour materials James Keirl\*, Gregory James\*,

  \*Defence Science and Technology Laboratory, United kingdom
  - 15:40 V<sub>50</sub> determination challenges for state of the art body armour *M.J. van der Jagt-Deutekom\**, *J.P.F. Broos* \*TNO, Netherlands

16:05 End of Program / Leisure time



# The 16th International Personal Armour Systems Symposium

September 11-15, 2023 | Maritim Hotel and Conference Centre | Dresden | Germany

### Programme on Thursday, September 14

08:00 Conference Counter Opens

08:15 Opening of the Exhibition Welcome Coffee Served

### **Threats (including Laser)**

Chaired by: Hein Jager (IPAC) / Jane Barnes-Warden (London Metropolian Police Service, UK) requested

09:00 An experimental investigation into the threat posed by arrows to body armor Marina Seidl\*, Kevin Lehmann, Steffen Grobert

\*French-German Research Institute of Saint-Louis, France

09:25 Development of a new Type of Laser Safety Goggles for Aviation Crews: Results of Combining Absorptive and Reflective Filters

\*Marcel Kalter\*, Frank M. Jakobs, Peter Hank, Dietrich Pertsch, Ralf Mönikes

\*ESG Elektroniksystem- und Logistik-GmbH, Germany

09:50 Police versus Military Ammunition: Design, Wound Ballistics and Standards

Phil Gotts\*

\*Phil Gotts Consulting, United Kingdom

10:15 Rifle Burst Fire Testing - Probability of Number of Impacts on Hard Armour Panel

Naresh Bhatnagar\*, Hemant Chouhan, Kartikeya Kartikeya, Khushi Ram, Aisha Ahmed, Makhan Singh

\*Indian Institute of Technology, India

10:40 Coffee Break
Coffee and Snacks in the Exhibition Area



### The 16th International Personal Armour Systems Symposium

September 11-15, 2023 | Maritim Hotel and Conference Centre | Dresden | Germany

Programme on Thursday, September 14

### **Casualty Reduction / Human Factors**

Chaired by: Ulf Arborelius (IPAC) / Paul Fenne (UK)

- 11:20 Body Armour Comfort & Mobility Assessment

  Christophe Djololian\*, Louis Boogh

  \*DuPont Specialty Products Operations, Switzerland
- 11:45 Bladed Weapon Assaults and Human Vulnerability

  Jane Barnes-Warden\*, Peter F Mahoney

  \*London Metropolitan Police Service, United Kingdom
- 12:10 Impact assessment of load bearing vests, combat armor and ventilated vest configurations on thermal strain Boris R.M. Kingma\*

  \*TNO, Netherlands
  - 12:35 Lunch Break
    Drinks and Lunch in the Exhibition Area



### The 16th International Personal Armour Systems Symposium

September 11-15, 2023 | Maritim Hotel and Conference Centre | Dresden | Germany

Programme on Thursday, September 14

#### **Personal Armour and Items**

Chaired by: Naresh Bhatnagar (IPAC) / Michael Maffeo (US Army)

- 14:00 V50 Study of Light-Weight Body Armour Inserts under Angle Shot Karl Bernhard Bolz\*, Sven-Ulrich Hensellek, Malte Veehmayer
  \*Rheinmetall Protection Systems, Germany
- 14:25 **Development and performance of an UHMWPE Rifle Helmet** *Mirre van der Kamp\*, Ulrich Heisserer, Jos van Elburg, Dirk Louwers*\*Avient protective Materials, Netherlands
- 14:50 Extended Life Analysis (ELA) of Ceramic Plates

  Phil Gotts\*

  \*Phil Gotts Consulting, United Kingdom
  - 15:15 Coffee Break
- 16:00 Generative Design of soft-armour Yoeng Sin Khoe\*
  \*TNO, Netherlands
  - 16:25 Introduction to PASS 2025

    Chairman of PASS 2025

    Group-Photo of PASS 2023 attendees
  - 16:50 Networking in the Exhibition Area
  - 18:00 Exhibition closes / dress up for Gala Dinner
  - 19:00 Gala Dinner Dinner Speech: Colonel (ret.) Bernd Kögel
  - 23:00 End of Dinner



# The 16th International Personal Armour Systems Symposium

September 11-15, 2023 | Maritim Hotel and Conference Centre | Dresden | Germany

### Programme on Friday, September 15

08:00 Conference Counter Opens

08:15 Opening of the Exhibition Welcome Coffee Served

#### **Armour Materials**

Chaired by: Frederik Coghe (IPAC) / Phil Gotts (IPAC)

- 09:00 Effect of Backing Material Stiffness on Ballistic Performance of Ceramic/UHMWPE Personal Body Armor Naresh Bhatnagar\*, Kartikeya Kartikeya, Hemant Chouhan, Dhruv Narayan, Aisha Ahmed, Khushi Ram \*Indian Institute of Technology, India
- 09:25 Development and Simulation of Protective Systems for Energy Absorption under Ballistic Loading Conditions

  \*\*TSS International, Netherlands
- 09:50 Towards a Fully Circular Aramid Yarn

  Bert Gebben\*,

  \*Teijin Aramid, Netherlands
- 10:15 What is the effect of composite covers on ceramics in hard armour plates?

  \*\*Bernt B. Johnsen\*, Dennis B. Rahbek\*

  \*Norwegian Defence Research Establishment (FFI), Norway
  - 10:40 Coffee Break
    Coffee and Snacks in the Exhibition Area



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September 11-15, 2023 | Maritim Hotel and Conference Centre | Dresden | Germany

Programme on Friday, September 15

### Blast Injury and Migitation (II)

Chaired by: Nicolas Prat (IPAC) / Michael Maffeo (US Army)

11:20 Hybrid III and THUMS Headforms Comparison for EOD Helmet Blast Mitigation Performance Jean-Philippe Dionne\*, Ming Cheng, Jeffrey Levine, Aris Makris
\*Med-Eng Holdings, Canada

11.45 Influence of torso protective equipment on intracorporeal shock wave behavior

Henrik Seeber\*, Steffen Grobert, Daniel Krentel, T. Hauer

\*Helmut-Schmidt-University / Hamburg University of the German Federal Armed Forces, Germany

12:10 Blast load on operating personnel from shock grenade Audun Bjerke\*

\*Norwegian Defence Research Establishment, Norway

12:35 **See you 2025** 

Hein Jager\*

\*Chairman of the International Personal Armour Committee

Lt. Colonel Dr. Steffen Grobert\*

\*Bundeswehr Hospital Berlin, Chairman of PASS 2023

12:50 Lunch

Drinks and Lunchbox in the Exhibition Area

14:00 End of PASS 2023



### The 16th International Personal Armour Systems Symposium

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### Pricing for Conference Visitors

The conference is open for members of the armed forces, research institutes, the civil services, parliaments and ministries, embassies, science and business.

For companion attendance, please send a request to: events@dwt-sgw.de

Conference fee day 1-5 Conference fee one day 1.395,00 Euro 499,00 Euro

Sign up as a Visitor here

#### Accomodation

#### The conference hotel:

https://www.maritim.com/en/hotels/germany/hotel-internationales-congress-center-dresden/hotel-overview

### **Hotels in walking distance:**

B&B Dresden: https://www.hotel-bb.com/de/hotel/dresden

Holiday Inn Dresden: https://www.ihg.com/holidayinn/hotels/gb/en/dresden/drshi/hoteldetail?

Leonardo Hotel Dresden Altstadt: https://www.leonardo-hotels.de/dresden/leonardo-hotel-dresden-altstadt

Penck Hotel Dresden: https://www.penckhoteldresden.de/en/

### Your contacts

### Programme / Call for Abstracts / Contents

**Lt. Colonel Dr. Steffen Grobert**Bundeswehr Hospital Berlin

SteffenGrobert@bundeswehr.org

Registration for Visitors & Exhibitors / Organisation

**Organisation Office** 

events@dwt-sgw.de

German Association for Defence Technology



### The 16th International Personal Armour Systems Symposium

September 11-15, 2023 | Maritim Hotel and Conference Centre | Dresden | Germany

### Pricing for Sponsors / Exhibitors



#### Option A | "Exhibition Space" | 290,00 € per square meter

Option A includes: stand in the size and position of your choice, 1 ticket per 6  $m^2$  booked space, 20% discount for additional "full tickets", 50% discount for "exhibition only Tickets", security charge.



#### Option D | "Individual Booth" | 560,00 € per square meter

Option D includes: Option C, premium-booth building, i.e.: wood-construction or printed stretchframe-system, presentation technology (TV, beamer), graphics at the booth, laminate / parquet / carpet.



#### Option B | "System Booth" | 380,00 € per square meter

Option B includes: Option A, Octanorm system stand, carpet expo rips grey, booth cleaning at night, electricity (up to two 3-socket connectors).



At PASS 2023 we offer one Gold, one Silver and one Bronze Sponsoring option.

Please contact us for details: stephan.bruess@dwt-sgw.de



#### Option C | "System Booth All Inclusive" | 460,00 € per square meter

Option C includes: Option B, illumination of the booth, front-banner with your logo  $200 \times 50$  cm, furniture, lockable storage area (if needed), carpet in the colour of your choice.



# The 16th International Personal Armour Systems Symposium

September 11-15, 2023 | Maritim Hotel and Conference Centre | Dresden | Germany

### Notes on Participation

With your registration you agree to the electronic processing and storage of your personal data. Photos and/or film recordings might be taken during the event and published without further notice. You consent to the distribution of a list of participants (name/function/institution) to the forum participants. With your registration / signature, you accept the conditions of participation in this invitation, the general terms and conditions and the data protection agreement of SGW Ltd, which can be viewed (in German / English) at www.dwt-sgw.de.

All prices quoted do not include VAT (except hotel rate).

Confirmed Authors / Speakers will have to submit a signed copyright licence that has to be sent in by the main author / entity that is in the possession of the copyrights before the final acceptance of the paper by the review committee. The main author shall ensure he is in possession of permission to publish from all co-authors. The presentations will be released immediately at the end of the conference for the attendees and will be released to the public six months later.

#### Liability

If an event is canceled for unforeseeable reasons, the registered participants and exhibitors will be informed immediately and any participation and exhibition fees already paid will be refunded. The liability of the SGW is limited to the participation and exhibition fee.

#### **Cancellation conditions**

Our cancellation periods: cancellations are free of charge for participants up to 5 days before the conference. Exhibitors have the option of free cancellation up to five weeks before the event.

#### Organisation:

Centre for Studies and Conferences of the German Association for Defence Technology Ltd. (SGW)

Contact: Hochstadenring 50, 53119 Bonn

www.dwt-sgw.de

Mail: info@dwt-sgw.de

Managing Director: Colonel (ret.) Bernd Kögel

Tel.: +49-228-4109811

Bank: Sparkasse KölnBonn, BIC: COLSDE33, IBAN: DE36 3705 0198 0053 0033 80

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