




UNDERWATER TECHNOLOGY

Conference

September 12 – 13, 2023
Essen, Germany





Picture: SGS – Subsea Global Solutions/ Uwe Aschmeier

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Program subject to change!



UNDERWATER TECHNOLOGY

CONFERENCE

September 12. – 13, 2023, Essen

Every two years, the German Welding Society (DVS) organizes an **UNDERWATER TECHNOLOGY CONFERENCE (UTC)**. The initial conference occurred in 2008. Since then, this biennial conference brings together a diverse group of stakeholders. The speakers and attendees include professional divers, dive supervisors, ROV operators, engineers, academia, representatives from the offshore energy market and others. The 2023 UTC is scheduled to take place in conjunction with the DVS CONGRESS and the international trade fair “Joining, Cutting, Surfacing – **SCHWEISSEN & SCHNEIDEN**” in **Essen, Germany, from September 11 through September 15, 2023.**

Over the preceding decade, the UTC has become one of the most important communication hubs for the diving and maritime industry. The conference always draws between 100 to 120 participants, with presenters often belonging to key stakeholders in their respective fields. Presentations will be offered in English and in German.

The presentations range from introduction and status of research projects in underwater welding and cutting, electrode development and others, standards, underwater NDT/ NDE, Underwater welding, introduction of underwater case studies and much more. The UTC takes place in sequence parts in English and German language.

We are pleased to invite you to this special exchange.

D. Engel
Chairman of the Program Commission

www.dvs-ev.de/UWT2023

PROGRAM

Tuesday

September 12, 2023

Praxiserfahrung in der Unterwassertechnik

Session Chair: U. Gabrys

- | | |
|-------|--|
| 11:00 | Wirbelstromprüfung auf lokale Korrosionserscheinungen an Spundwänden
A. Jankowski* |
| 11:30 | Ermüdungs- und Bruchverhalten von UW geschweißten Stumpf- und Kehlnähten
U. Aschemeier*, P. Vargas, S. Altstadt |
| 12:00 | Praxisnahe Innovationen zur Erweiterung der Einsatzgrenzen der Unterwasserschweißtechnik
C. Zarach*, N. Mutzeck, T. Hassel |
| 12:30 | Kampfmittelräumung unter Wasser
N. Günzlein* |
| 13:00 | Lunch Break |



PROGRAM

Tuesday

September 12, 2023

Aktuelles aus Forschung und Technik

Session Chair: K.-M. Henkel

- 14:00** **Verbesserung der mechanisch-technologischen Eigenschaften von nass unterwassergeschweißten Kehlnähten an hochfesten Stählen**
P. Dewald*, R. Sharma, U. Reisgen
-
- 14:30** **Lebensdaueranalyse für Klebverbindungen in großen FKV-Strukturen mit variierenden Klebschichtdicken - Levadi**
C. Wald*, L. Fröck, W. Flügge, C. Düreth, I. Koch, M. Gude
-
- 15:00** **Zerstörungsfreie Bewertung der Härte an Wärmeeinflusszonen von Schweißnähten unterhalb der Wasserlinie**
N. Steinbrecher*, H. Maier, S. Barton
-
- 15:30** **Schwingfestigkeit von unter Wasser nass geschweißten Konstruktionsdetails**
O. Brätz*, T. Wolf, T. Hassel, K. Henkel
-
- 16:00** **Untersuchung zum Korrosionsrisiko beim Einsatz von austenitischem Schweißgut zur Vermeidung wasserstoffinduzierter Rissbildung beim nassen Unterwasserschweißen**
L. Vaccari*, T. Hassel, H. Maier

16:30 **End**

* Presenter

Program subject to change



PROGRAM

Wednesday

September 13, 2023

Research and Development

Session Chair: T. Hassel

- 09:00** **Shortage of skilled work force: A different approach for alternative recruiting**
S. Staude*
-
- 09:30** **Implementation of pulsed current on underwater shielded metal arc welding (SMAPUW)**
A. Moreno Uribe*, L. Vaccari, T. Hassel, I. Lendiel, T. Wolf
-
- 10:00** **Digital visual testing of welds under water using optical 3D measurement technology with image-variant illumination**
O. Kahmen*, R. Rofallski, T. Luhmann
-
- 10:30** **Coffee Break**

Application of underwater welding

Session Chair: U. Aschemeier

- 11:00** **Pier repair in Freeport Bahamas**
M. Feingold*, J. Schmerl
-
- 11:30** **Experience of a female working in a male dominated industry**
W. McDonald*
-
- 12:00** **Analysis of Structural integrity on Underwater wet welding in Maritime**
R. Govindaraj*, P. Lindström, U. Aschemeier
-
- 13:00** **Lunch Break**

PROGRAM

Wednesday

September 13, 2023

Offshore applications

Session Chair: T. Lohmann

- 14:00** **Underwater Weld Defect Excavations on Subsea Structures Using Hydro-Carbon Arc Gouging**
E. Toups*, C. Rowolt
-
- 14:30** **Underwater wet weld repair of the bilge keel of an FPSO**
U. Aschemeier*, B. Xavier, L. Furtado
-
- 15:00** **Fatigue long term assessment for root cause analysis in turret moored FPSO bilge keel crack findings**
B. Xavier*, G. Leal, U. Aschemeier
-
- 15:30** **Research project confirms superiority of hydraulic yield point controlled tightening**
P. Junkers*
-
- 16:00** **End**

* Presenter

Program subject to change





PROGRAM COMMITTEE

U. Aschemeier	SUBSEA Global Solutions, Miami/USA
D. Engel	Corroconsult GmbH, Hamburg
U. Gabrys	Bundesanstalt für Wasserbau, Karlsruhe
T. Hassel	Leibniz Universität Hannover, Hannover
Ch. Heering	DVS – Deutscher Verband für Schweißen und verwandte Verfahren e. V., Düsseldorf
O. Heins	EnBW Energie Baden-Württemberg AG, Hamburg
W. Henz	GSI mbH, NL SLV Hannover, Hannover
R. Kolbusch	KWE Ing.-Büro, Wilhelmshaven
T. Lohmann	DNV, Hamburg
H. Pauli	Sereetz
J. Struwe	DNV, Hamburg



Picture: SGS – Subsea Global Solutions/Uwe Aschemeier

IDEATIONAL PARTNERS



MESSE
ESSEN

INFORMATION

Location

Messe Essen / Congress Center Essen
Congress Center West
Lührmannstraße/Norbertstraße
45131 Essen, Germany

Registration

Registrations to the conference can be made by mail with the registration form. The registration form is available for download on the conference web-site (www.dvs-ev.de/UWT2023).

Please note that the conference fee provides entrance to the trade fair SCHWEISSEN UND SCHNEIDEN.

After the registration you will receive a registration confirmation and invoice. The conference fee has to be paid after receiving the invoice and before the conference. Please notice the Early Bird Price which is offered until **July 31, 2023**.

Conference Fee

UNDERWATER TECHNOLOGY Conference 2023		
	Early Bird Ticket (valid until July 31, 2023)	Ticket (valid from August 1, 2023)
DVS-Members (incl. Water/Coffee, Conference Proceedings UTC)	270 €	330 €
Non-Members (incl. Water/Coffee, Conference Proceedings UTC)	290 €	370 €

All prices including VAT.

INFORMATION

Payment

Data for Bank transfer (after receiving invoice):

DVS Media GmbH:

Deutsche Bank AG, Düsseldorf

IBAN: DE04 3007 0010 0155 7008 00

BIC-Code: DEUTDEDDXXX

Use: Essen UWT 2023, Number of invoice and attendee name

Bank transfer fees will be charged to the participants.

Accepted Credit Cards (after receiving invoice):

MasterCard, Visa, American Express

Cancellation

Cancellations are obligated to be submitted written. Cancellations after **August 11, 2023** will be charged a cancellation fee of EUR 100, after **August 28, 2023** the full participation fee will be charged (substitute person can be named).

Approach/Parking

You can find information regarding approach to Congress Centrum West, Messe Essen and the parking situation online:

www.messe-essen.de/messeplatz-essen/anreise/anreise-mit-dem-auto/anfahrt-zum-cce/



CONTACT

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