



Conference on

Flat Bottom Storage Tanks

October 29 – 30, 2024
Munich, Germany

with
Exhibition



The Conference

Over the past years the TÜV SÜD **Conference on Flat Bottom Storage Tanks** has become a global platform for discussing the industry's changing regulations. The focus of the next international conference will be to identify potential areas for improvement in environmental protection and safety in tank storage facilities and to update on new regulations for the operation and design of aboveground storage tanks in Europe and worldwide.

The International Conference on Flat Bottom Tanks provides an overview of current issues and offers comprehensive know-how in the form of presentations from the perspective of specialists from industry, planners, authorities and organizations.

The Conference addresses to

- Chemical and mineral oil industry as well as energy supply companies
- Constructors of plants with flat bottom tanks
- Manufacturers of flat bottom tanks
- Specialized companies and suppliers for flat bottom tanks
- Authorities and associations responsible for environmental protection, water pollution prevention, industrial safety and building legislation
- Experts

Program Committee

Tobias Baumgärtel, EDR GmbH
Raymond-Horst Brandsch, BASF SE
Dr. Britta Holtschoppen, SDA-engineering GmbH
Dr. Florian Köhler, Otto-von-Guericke-Universität Magdeburg
Karen Pannier, Umweltbundesamt
Merlin Piatkowski, TÜV Technische Überwachung Hessen GmbH
Karlheinz Russ, TÜV SÜD Energietechnik GmbH Baden Württemberg
Dr. Sebastian Schörpf, OMV Downstream GmbH
Peter Szalata, formerly TÜV SÜD Industrie Service GmbH
Dr. Till Waas, Linde GmbH

Chairman:

Peter Ball, TÜV SÜD Industrie Service GmbH

Conference Languages

Conference languages are German and English. A simultaneous translation into English will be provided for all presentations given in German.

Exhibition

Interested companies have the opportunity to present their products and services at the exhibition which will be held in parallel with the conference. For more details about costs and availability, please contact Martina Sperber, congress@tuv sud.com, Phone +49 89 5791 2476

October 29, 2024

- 09:45 **Welcome**
TÜV SÜD Industrie Service GmbH (DE)
- 10:00 **Climate change and natural disasters: Modern methods of location risk analysis**
Christof Reinert, Head of Risk Management Partners, Munich Re Group (DE)
- 10:30 **Safe and efficient storage and transport of hydrogen in stationary liquid fuel infrastructure using LOHC technology**
Sejir Boubtane, Hydrogenious LOHC Technologies (DE)
- 11:00 Coffee break

Regulatory Requirements and Framework Conditions for the Construction and Operation of Flat Bottom Tanks

- 11:30 **Addressing Environmental Justice (EJ) and Climate Change Concerns under the USEPA's Implementation of the Aboveground Storage Tank (Flatbottom) Inspection and Oil Spill Prevention Program**
Mark W. Howard, SPCC National Program Manager, USEPA (USA)

Emissions from Flat Bottom Tanks and Explosion Protection

- 12:00 **Dispersion of volatile organic hydrocarbons from floating roof tanks: concentrations at large distances from refineries and tank farms**
Dr. Ronald Zinke, Jan Struve, TÜV NORD EnSys GmbH & Co KG (DE)

- 12:30 **Venting and explosion protection research for storage of methanol**
Dr. Michael Davies, Tom Gutte, Michael Kreißig, Braunschweiger Flammenfilter GmbH (PROTEGO) (DE)

13:00 Lunch break

- 14:00 **Emergency relief vents: available norms, purpose and pressure settings related to design parameters of tanks**
Jan de Jong, D&C Engineering (NL)

Inspection and Testing Methods

- 14:30 **State of the art inspection and maintenance of storage tanks**
Dr. Sebastian Schörpf, OMV Downstream GmbH; Markus Geiger, TÜV SÜD Landesgesellschaft Österreich GmbH (AT)

- 15:00 **Evaluation of the corrosion rate at the bottom of the aboveground tank for storage of petroleum products**
Aleš Povše, Petrol d.d., Ljubljana; Saša Skale, SKALA, Sasa Skale s.p. (SLO)

15:30 Coffee break

- 16:00 **AT for the detection of corrosion on tank bottoms of filled storage tanks – current status**
Dana Dietze, TÜV SÜD Industrie Service GmbH (DE); Martin Rahn-Hirni, CARBURA – Schweizerische Pflichtlagerorganisation für flüssige Treib- und Brennstoffe (CH)

- 16:30 **3D measurements - damage identification, damage assessment and calculation**
Dimitrios Kazaklis, TÜV SÜD Industrie Service GmbH; Michael Petersen, ÖbVI PETERSEN; André Birke, TÜV SÜD Industrie Service GmbH (DE)

17:15 **How drones make the inspection of storage tanks safer and more efficient**
Steven Verver, Jochen von Hagen, Terra Inspectioneering (NL); Sebastian Schubert, EVOS Hamburg GmbH (DE)

17:45 End of the first conference day

19:00 Evening event

October 30, 2024

Proof of Stability for Tank Structures

09:00 **Using generic imperfection patterns for the GMNIA verification of existing tanks**
Dr. Peter Knödel, Ingenieurbüro Dr. Knödel; Tobias Wacker, ANAKON GmbH (DE)

09:30 **Tank structures as part of the critical infrastructure – Can steel tanks safely withstand high explosion pressures?**
Dr. Alessandro Stocchi, Dr. Julia Rosin, Fraunhofer Institute for High-Speed Dynamics, Ernst Mach Institute, EMI (DE)

Maintenance and Ageing Management

10:00 **Partial tank lifting to correct foundation settlement**
Lance Watson. A.R. WATSON Inc.; Mark Baker, Baker consulting group (USA)

10:30 Coffee break

11:00 **Sealing options for tanks using sealing systems with magnets**
Udo Keller, MiRO Mineraloelraffinerie Oberrhein GmbH & Co KG; Alexander Stoll, Stoll Seal System (DE)

11:30 **Coating removal on storage tanks**
Robert Becker, Industriewartung Becker GmbH (DE)

11:45 **Comparison between European and American alternative dike-field containment systems**
Marshall Mott-Smith, Mott-Smith Consulting Group LLC (USA)

12:15 Lunch break

International Projects / Lessons Learned

13:15 **Quick overview of roof air lifting activity – safety considerations and risk mitigation by integrating design and construction – Collection of Lessons learned from former projects**
Sebastiano Orofino, S.T.S. Sonningdale Tank Services srl (IT)

13:45 **Tank Jacking: lift your maintenance quality**
Corné van de Reijt, Roy van der Windt, J. de Jonge TankX BV (NL)

14:15 **New build of a chemical tank farm 2022 – 2025 / Field report**
Andreas Knittel, Dipl.-Ing. SCHERZER GmbH (DE)

14:45 **Outlook and farewell**
Peter Ball, TÜV SÜD Industrie Service GmbH (DE)

15:00 End of conference

Registration & Information

Scan QR code or visit

www.tuvsud.com/akademie/storage tanks



Conference Venue

Alte Kongresshalle

Am Bavariapark 14
80339 Munich, Germany



Conference Fee

€ 1.100,-- plus VAT (if applicable)

The conference registration fee includes digital conference documentation, lunch, snacks and beverages during breaks as well as the evening event.

For further information please contact:

TÜV SÜD Akademie GmbH

Westendstr. 160
80339 Munich, Germany
Martina Sperber
Phone: +49 89 5791-2476
Email: congress@tuvsud.com

In cooperation with the

TÜV SÜD Industrie Service GmbH