

ROSEN ENERGY & INNOVATION FORUM 2014 CONFERENCE BROCHURE



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DEAR HONORED GUESTS OF THE ROSEN ENERGY & INNOVATION FORUM

It is with great pleasure that we welcome you in the heart of ROSEN, the ROSEN Innovation Center. Thank you very much for taking the time and effort to visit us in the small but beautiful city of Lingen. You can look forward to a multifaceted program, including our main forum with three high-level panel discussions, during which we are very much looking forward to exciting and engaging discussions, that will influence and shape our industry, our businesses and the environment we operate in. We will demonstrate our innovative and creative ways of finding customer solutions in a series of technical workshops, as well as guiding you through Europe's largest power to gas facility nearby.

Please also take advantage of your stay through exploring the ROSEN Technology & Research Center and our production facilities by participating in the Innovation Center Tour, offered on Wednesday and Friday and expand your professional network during our social events. Live technology demonstrations on Friday will round up the program with highlights such as our new EMAT hot steam and multiphase flowmeter, crawlers which can inspect formerly non-piggable pipelines and our versatile internal and external pipeline coating.

Thank you again for joining us, we wish all of us three inspiring days!

Sincerely yours,

Hermann Rosen

Friedrich Hecker



AGENDA

WEDNESDAY, JUNE 4TH, 2014

(Dresscode recommendation: Smart Casual)

- 08:00 Bus Transfer from Conference Hotel to ROSEN

- 08:15 Registration

- 08:30 Departure for "Energy Tour": Power to Gas in Werlte
or
- 09:00 "Innovation Tour": Explore the ROSEN Site

- 11:45 Bus Transfer from Conference Hotel to ROSEN

- 12:00 Registration, Networking, Snacks and Refreshments

- Technical Workshops**
- 13:00 Session 1, Presentation 1
Session 2, Presentation 1

- 13:45 Session 1, Presentation 2
Session 2, Presentation 2

- 14:30 Coffee and Networking

- 15:00 Session 1, Presentation 3
Session 2, Presentation 3

- 15:30 Session 1, Presentation 4
Session 2, Presentation 4

- 16:00 Session 1, Presentation 5
Session 2, Presentation 5

- 16:30 Bus Transfer from Conference Hotel to ROSEN

- 17:00 Opening of the ROSEN Energy & Innovation Forum
Keynote Address by Hermann Rosen,
President of the ROSEN Group

- 17:30 Ice Breaker Event
Relaxed BBQ at the ROSEN site
(Dresscode recommendation: Smart Casual)

- 20:30 Bus Transfer 1 from ROSEN to Conference Hotel
- 22:00 Bus Transfer 2 from ROSEN to Conference Hotel

TECHNICAL WORKSHOPS

Technical Workshops will be held in two parallel sessions.

Session 1

1. Inspecting what has been Unpiggable before -
Challenging Diagnostic in its perfection
2. Multiphase Flow-Measurement -
ROSEN's non-wetted EMAT Instrumentation
3. Managing the Unknown - Determining Pipe Grades
based on historical and new data sets
4. Mechanical Damage, Stress Risers and Hard Spots -
Combined Technologies enable Multiple Dataset Analysis
5. Crack Detection in Gas Pipelines -
ROSEN EMAT-ILI Technology

Session 2

1. Pipeline Cleaning -
Black Dust, Wax and other Challenges
2. Offshore Demands on CRA Pipe -
Established inspection technologies manage the risk
3. Integrated Data Management and Integrity Solutions -
Applying the ROAIMS Software Suite
4. Applying Intelligence in Plastic Solutions -
ROSEN's high resistant coatings and clever products
5. Circumferential Cracking in High Pressure Injection
Lines - Detection & Mitigation



THURSDAY, JUNE 5TH, 2014

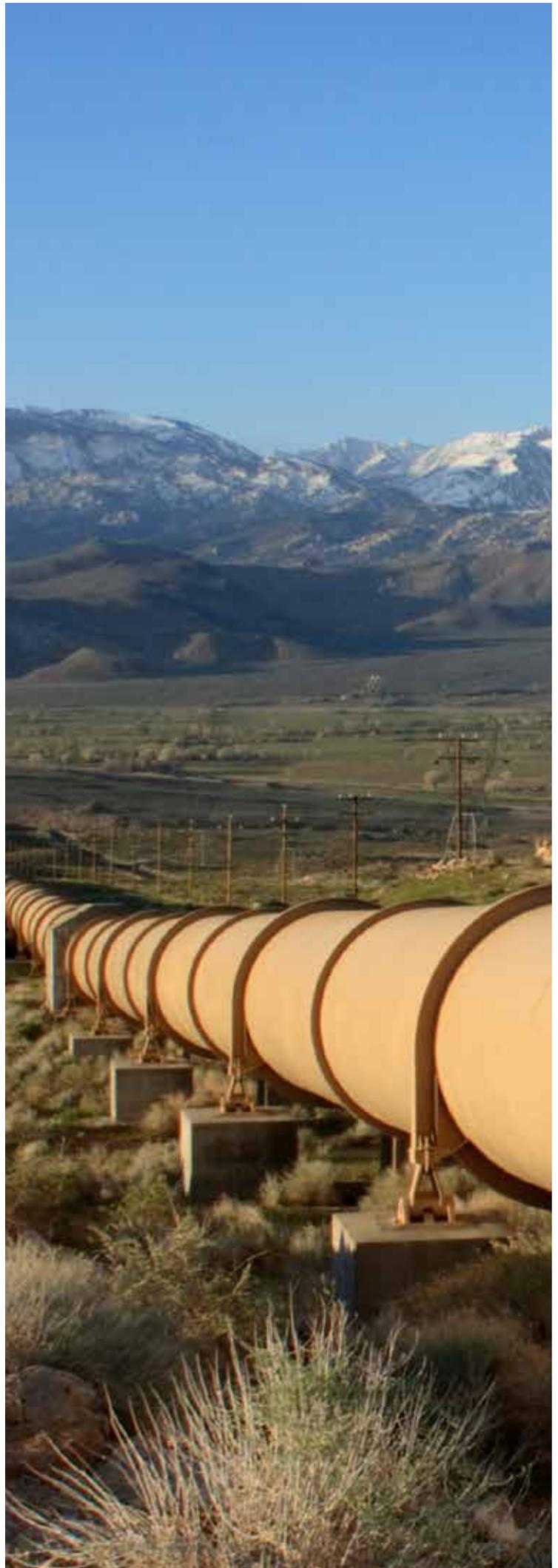
(Dresscode recommendation: Business Attire)

- 07:45 Bus Transfer from Conference Hotel to ROSEN
- 08:00 Registration, Networking, Snacks and Refreshments
- 08:45 Welcome Address
Friedrich Hecker, CEO of the ROSEN Group
- 09:15 Keynote Address
Sean MacNiven, Head of Online Employee Engagement and Research of SAP
- 10:00 Coffee and Networking
- 10:30 Introduction of the Panel Sessions Concept by Heinz Watzka

Panel 1 "Assurance" Standardisation and Worldwide Regulation in a Global Business

Moderation: Heinz Watzka

- 10:45 Introduction of Panelists and
Impulse Presentation by Rüdiger Marquardt,
Director Managing Board DIN German Institute
for Standardization
- 11:00 Panel Discussion
- 12:45 Lunch



Panel 2 "Innovation"

Future Needs to Support a Safe and Efficient Industry

Moderation: Janet Ronsky

- 14:00** Introduction of Panelists and Impulse Presentation by Mario Azar, CEO Siemens Oil & Gas
- 14:15** Panel Discussion
- 15:30** Coffee and Networking

Panel 3 "Safety"

Changing and Maintaining a Sustainable Safety Culture

Moderation: Heinz Watzka

- 16:00** Introduction of Panelists and Impulse Presentation by Brenda Kenny, President of Canadian Energy Pipeline Association (CEPA)
- 16:15** Panel Discussion
- 17:30** Wrap Up
- 17:45** Bus Transfer from ROSEN to Conference Hotel
- 19:00** Bus Transfer from Conference Hotel to Berentzen Hof
- 19:30** Conference Dinner at the Berentzen Hof (Partners are welcome)
Dresscode: Business Attire
- 22:30** Bus Transfer from Berentzen Hof to Conference Hotel
- 23:30** Bus Transfer from Berentzen Hof to Conference Hotel
- 01:00** Bus Transfer from Berentzen Hof to Conference Hotel



PANEL DISCUSSION

QUESTIONS TO STIMULATE THE DISCUSSION

PANEL 1: Assurance

- What is the impact of worldwide regional differences as it relates to governmental regulations?
- What would be the benefits of a global harmonization?
- How do we deal with regional and cultural differences?
- What are the requirements to assure a safe and efficient industry?

PANEL 2: Innovation

- How can we boost innovation power?
- Is standardization blocking innovation?
- Evolution or revolution? Pros and cons of the two fundamental innovation philosophies.
- Learning by doing? Do we have a culture of learning from experience?
- Is innovation an obligation of institutions or individual companies?

PANEL 3: Safety

- What is the future role and approach of safety management?
- How to exceed requirements imposed by governmental regulations?
- Long term investment versus short term profit to assure a sustainable safety culture?



KEYNOTE SPEAKER



SEAN MACNIVEN

Career

Since 2005 Sean MacNiven has been responsible for social media and communications topics at SAP. Most recently Sean created a team dedicated to innovation within the PR and Marketing area, dedicated to researching the next generation channels and strategies for effective cooperation between people. Sean has launched various platforms at SAP including the novel Forbes partnership Forbes SAPVoice, which was a new program enabling advertisers to use Forbes blogging platform as thought leaders and to reach out to their 20 million audience, as well as SAP's most successful Twitter handles, the entire news landscape internally and externally, and a number of novel tools facilitating better executive to employee engagement. Following social media Sean has been involved in researching strategies for the use of ramification within the enterprise, augmented reality, and ideation platforms at SAP. Outside of SAP Sean has consulted numerous companies, and is a technology advisor to EU PR efforts, where he established the PR site, p4ace.eu. Today, identifying here good ideas come from and how to best take advantage of the collective intelligence of human interactions is a current passion and represents the culmination of many previous efforts as he works towards enabling the innovative enterprise. Sean has written for magazines, book chapters, and is currently engaged in academic research.

MODERATION



JANET RONSKY

Career

Janet Ronsky is a Professor in Mechanical and Manufacturing Engineering at the University of Calgary, with joint appointments in Medicine and Kinesiology. Her research focuses on understanding links between musculoskeletal system structure, joint mechanics, dynamic joint function, neuromotor control and joint injuries and diseases. She held a Canada Research Chair in Biomedical Engineering from 2001-2011, and has over 300 peer reviewed publications. She has previously worked in natural gas transmission and operations, as well as ethylene plant fuel and feedstocks.

As Director of Zymetrix, Janet Ronsky is responsible for leading technology innovation and development in biomaterials, tissue engineering and biomedical devices, as well as providing customized collaborative and contract research and testing services in these areas for industry and academic clients. She has developed innovative technologies relating to medical imaging and materials testing, and holds several patents.

Janet Ronsky holds a BSc in Mechanical Engineering (Waterloo University) and a PhD in Mechanical Engineering (University of Calgary). She is a Fellow of the Canadian Academy of Engineers, a member of numerous organizations including the Association of Professional Engineers, Geologists, and Geophysicists of Alberta, and currently serves as the NSERC Canada Mechanical Engineering Group Chair.



HEINZ WATZKA

Career

Heinz Watzka studied mechanical engineering at Technical University of Vienna / Austria - from 1977 – 1986. He specialized in welding and hydraulic design of pump stations for the oil industry.

From 1981 – 1990, Mr. Watzka worked as Project engineer and manager for oil & water pipeline projects in Nigeria, Turkey, Saudi Arabia, Germany, Lybia. Until 1986 he worked as student and later as project engineer at Ingenieurgesellschaft Lässer-Feizlmayr

From 1991 – 2002 he served as project engineer for hydraulic optimization in Germany, Austria and Italy for the Transalpine Pipelinesystem. From 1994 - 2002, Mr. Watzka was technical Manager of Deutsche Transalpine Oelleitung GmbH as well as Consultant for the shareholders BP and OMV in surveys for TransAlaska Pipeline System and PARCO Pipeline System.

As Senior Vice President responsible for the Maintenance of Ruhrgas AG he was active from 2002 – 2010. After that and until 2013, Heinz Watzka was Managing director of Open Grid Europe GmbH.

Mandates

- President of the coordination committee and supervisory board MEGAL GmbH
- Member of the supervisory board TENP GmbH
- Member of commercial and technical committee EVG Thüringen-Sachsen mbH
- Member of the coordination committee TGL TauernGasleitung / Austria
- Member of the board of management of DVGW , Germany

FRIDAY, JUNE 6TH, 2014

(Dresscode recommendation: Smart Casual)

- 08:15 Bus Transfer from Conference Hotel to ROSEN
- 08:30** Conference Breakfast
- 09:30** Presentation of Forum Synopsis and Way Forward
- 10:00** Live Technology Demonstrations
- Pull Test of 20" Magnetic Flux Leakage Tool (MFL-A)
 - Challenging Diagnostics Division
 - EMAT Flowmeter
 - Low Flow, Low Pressure Bi-Directional Crawler
 - Tank Bottom Inspection (TBIT) and External Precision Piping Inspection IFSE
 - RoCoat Pipeline Coating, Intelligent Plastics
- 13:00** Snacks
- 13:30** End of Conference and Transfer to Conference Hotel
- 14:00 Departure from Conference Hotel for Sightseeing Tours:
- Explore Münster: The world's most livable city 2007
15:30 Arrival in Münster
21:00 Arrival in Lingen
- or**
- Explore Amsterdam: The City of Rembrandt
17:00 Arrival in Amsterdam
17:30 Start of the Boat Trip
01:00 Arrival in Lingen
- or**
- "Innovation Tour": Explore the ROSEN Site

LIVE TECHNOLOGY DEMONSTRATIONS

Pull Test of 20" Magnetic Flux Leakage Tool (MFL-A)

Our inspection tools are calibrated once they are assembled the first time or after refurbishment. With one of the largest collection of original customer line pipes, we are able to continuously ensure the reliability of the inspection technology results. The pull test is performed on our own testing area.

Challenging Diagnostic Division

ROSEN's strategy to engineer tailored solutions to optimally inspect challenging pipelines relies on combining methods, applications, modules and components all contained within the ROSEN Tool-Box. Using the Tool-Box approach enables ROSEN's experts to have the utmost flexibility and fastest turnaround time. The following ROSEN Tool-Box elements are in display during the demonstrations:

The 30/36" Tractor Unit

With its unique driving concept, the 30/36" Tractor is able to move various ROSEN measurement elements through pipelines, even those containing 1.5D bends, without the need of propellant medium. The non-tethered operation allows for a wide range of applications while remaining highly reliable due to integrated fail-safe systems.

The Pulsed Electro Magnetic Acoustic Transducer Unit

The unit is one of the latest elements in the ROSEN Tool-Box. This element offers all the advantages of ultrasonic technology without the need for a liquid and is optimized for detecting cracks and crack-like anomalies. The utilization of pulsed electro-magnets is ideally suited for low friction requirements in pipelines with or without medium.

EMAT Flowmeter

The EMAT Flowmeter is the next cutting-edge technology from the ROSEN Group. The flowmeter system is an instrument for measuring the gravimetric or volumetric flow rate by EMAT ultrasonic technology for different media in pipelines. The flowmeter is capable to measure gases, liquids and steam accurate, repeatable and reproducible. Also multiphase applications can be managed in realtime in near future with this multivariable device. The technology is patented. It was developed at the ROSEN Technology & Research Center in Lingen, Germany.

Low Flow, Low Pressure Bi-Directional Crawler

In some pipeline systems, the operating pressure is below the standard pressure required for the operation of a standard in-line inspection tool. The challenge in low flow and low pressure pipelines, the challenge is not to get the tools from one end to another, but to ensure a constant inspection rate. A possible solution is to reduce the friction between the tool on the steel wall. This can be realized via optimized cups/disc design as well as optimized sealing.

Many pipelines were designed without real consideration of their inspection needs and are often not equipped with standard launching and receiving facilities. Some of these lines can be modified temporarily or have a single point of entry only. Our services specifically manage the challenges of pipelines with limited access. The high performance bidirectional capability is achieved by a unique low friction magnetizer and sensor suspension system combined with a special propulsion sealing/venting disc setup. This allows bidirectional pumping and tethered operation.

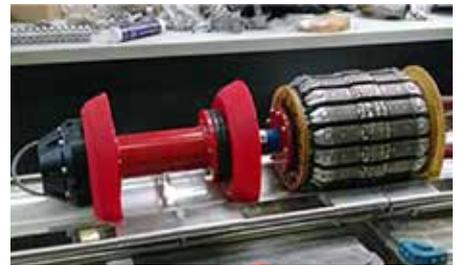
Tank Bottom Inspection (TBIT) and External Precision Piping Inspection IFSE

Live inspection of a tank bottom plate using the Tank Bottom Inspection Tool (TBIT) and online data evaluation. Determination of length, width and depth of internal and external defects. Demonstration of data visualization with the Rosen Service Desktop for Tanks and the included reporting software Rosoft for Tanks.

Inspection of a pipe joint using the EMAT IFSE CIRC and AXUS and online data evaluation. Detection of different feature classes and determination of feature extend in circumferential and axial direction. Demonstration of data evaluation by using comprehensive signal information displayed in multi-layer software views.

RoCoat Pipeline Coating, Intelligent Plastics

RoCoat internal pipe coating is designed for increasing the lifetime and the integrity of pipelines for slurry and tailing transportation. The in-house developed RoCoat polyurethane and an exceptional manufacturing process leads to a unique mechanical and chemical resistance coating. You are welcome to follow the manufacturing procedure of pipe coating at the ROPLAST building.





ADDITIONAL INFORMATION

LINGEN - A CITY PORTRAIT

The almost 1030 year old history of the city invites you to an exciting excursion along the numerous well preserved historical buildings and places. Nature and landscape in a pure form have been luring tourists into the city and the region for many years. However, this is not contradicting the existence of busy economic activities of the approximate 2.500 industrial and commercial operations in Lingen. Business establishments as well as private persons profit from the well structured traffic connections of waterways, road systems and rail.

There are more than 56.000 citizens living in the heart of Lingen and the urban districts. Most of them live in single-family homes in generously arranged residential neighborhoods. The wide variety of retail, restaurants and last but not least the weekly market taking place on Wednesdays and Saturdays are worthwhile a visit. Lingen presents a variety of social institutions, cultural sites, sports clubs as well as an enormous offer for further education which complement all the demands and round up the picture. These are the many facts that make Lingen the economical and cultural center of the Emsland region. (sources: text City of Lingen; image Helmut Kramer)



THE "CITY OF THE KIVELINGE"

In the 14th century the young, bachelor sons of the bourgeoisie ('Bürger-söhne') courageously defended the fortified town, then under siege. A heroic act that earns them the right to celebrate their "Kivelingsfest" every three years on the marketplace in Lingen.

Recordings in the still preserved 'Kompaniebuch' (military company log book) from 1786 show that the founding year of the 'Kivelinge' ("small fighters") was the year 1372. It describes how the male population was drastically reduced in a siege. As a consequence the citizens of Lingen were unable to do anything else but sent its young men (16 and older) to defend the fortress walls. Lingen can be grateful to the lion-like courage of these brave sons that it didn't fall prey to the enemy. (sources: text City of Lingen, image: Fotoclub Blende 86)

Directly after the ROSEN Energy & Innovation Forum 2014 the Kivelinge celebrate their ancient "Kievlingsfest" in Lingen, a folk festival taking place only every three years. You should not miss the chance to see brave defenders, beautiful ladies and the original charme of the Emsland region. Get back the the medieval on a visit to the "Kivelingsfest"! (source: Kivelinge Lingen, 2011)



“SIGHTSEEING TOUR”: EXPLORE MÜNSTER: THE WORLD’S MOST LIVABLE CITY 2007

Münster is a cosmopolitan city, youthful, laid-back and proud of a history going back more than 1,200 years. Whether as a bishop’s seat, a member of the Hanseatic League or a university city – Münster has always played an important role in the region and far beyond. The city earned its place in the annals of world history when the Treaty of Westphalia was signed there.

City of science, city of sculptures, city of science, city of the Peace of Westphalia, city of bicycles, Münster is a living metropolis with many faces. Westphalia’s longstanding regional capital is a young city, not least thanks to around 50,000 students. It is an outstanding place to live, work, learn and research. It is a place where urban culture, municipal diversity and first-class rural recreation intersect and have a mutually enhancing effect.

“SIGHTSEEING TOUR”: EXPLORE AMSTERDAM - THE CITY OF REMBRANDT

Amsterdam is the capital of the Netherlands. With more than one million inhabitants in its urban area, it is the country’s largest city and its financial, cultural, and creative center. Amsterdam is colloquially known as Venice of the North, because of its lovely canals that crisscross the city, its impressive architecture and more than 1,500 bridges.

Amsterdam is one of the greatest small cities in the world. From its canals to world-famous museums and historical sights, Amsterdam is one of the most romantic and beautiful cities in Europe.

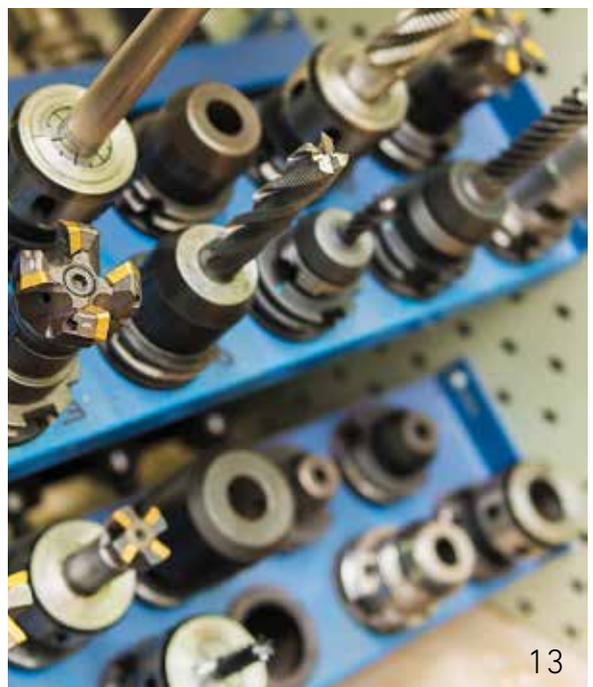
Amsterdam is also a city of tolerance and diversity. It has all the advantages of a big city: culture, nightlife, international restaurants, good transport - but is quiet, and largely thanks to its extensive canals, has a little road traffic.

“INNOVATION TOUR”: EXPLORE THE ROSEN SITE

Back in 1986, the fundamentals for the ROSEN site at “Am Seitenkanal” was laid in the southern industrial park of Linggen, Germany. The former Headquarters of the ROSEN Group, inside the “blue building” nowadays is the main building of our Factory. With an own production of mechanics, electronics, sensors, batteries and high-performance polyurethanes the Factory is the global supplier for the ROSEN Group and at the same time the “birth-place” of every ROSEN tool.

Come and see both parts of ROSENs Technology & Research Center: the Innovation Center and the Factory, to get to know us better.

What makes us successful? The intelligent combination of skills, innovation, creativity and a common team approach.



IMPORTANT CONTACTS

CONFERENCE ADDRESS

ROSEN Technology & Research Center
Rohstraße 33
49811 Lingen (Ems), Germany

CONFERENCE CONTACT

Sabrina Meyer
Phone: +49-591-9136-0
E-Mail: reif@rosen-group.com

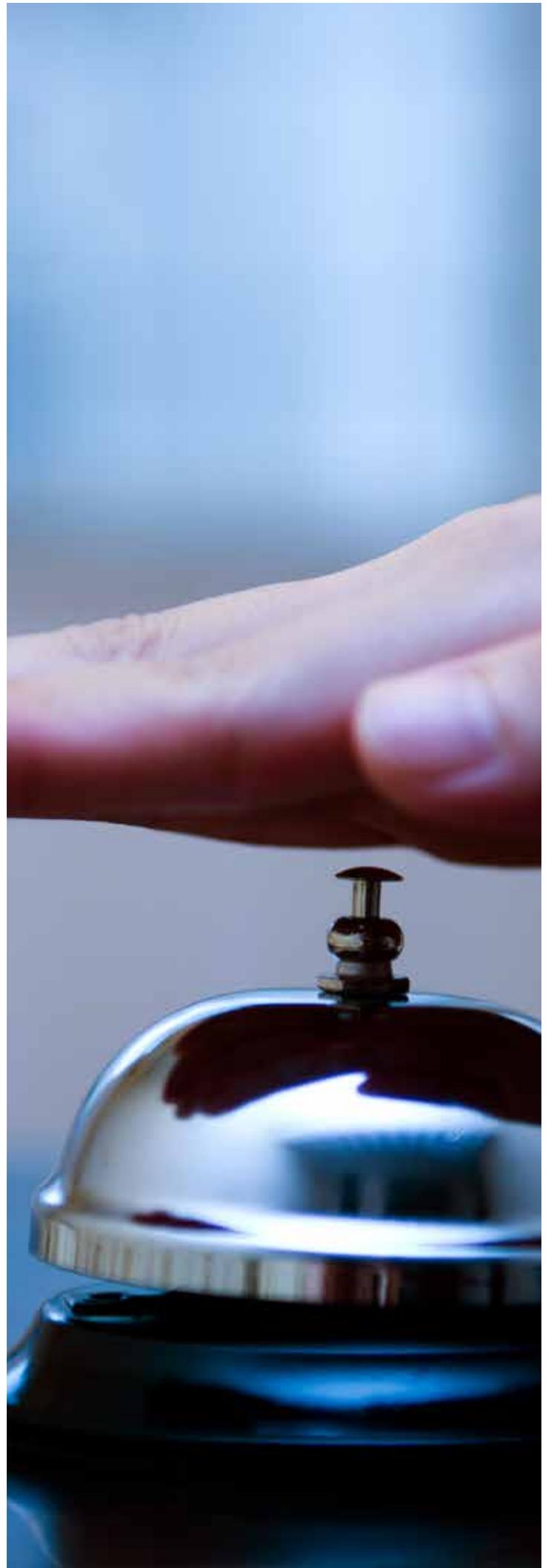
CONFERENCE HOTELS

Hotel am Wasserfall
Am Wasserfall 2
49808 Lingen (Ems)
Phone: +49-591-8090
E-Mail: info@hotel-am-wasserfall.de

Hotel zum Märchenwald
Vennestraße 25
49809 Lingen
Phone: +49-591-912840
E-Mail: info@hotel-zum-maerchenwald.de

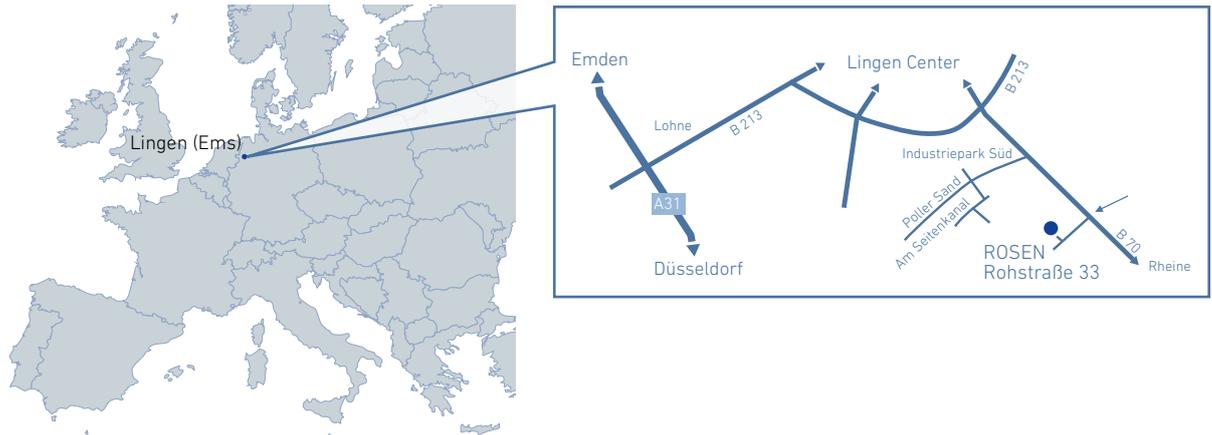
OTHER PHONE NUMBERS

ROSEN site security: +49-591-9136-850
Taxi Call (Taxi Hundertmark): +49 591-6030

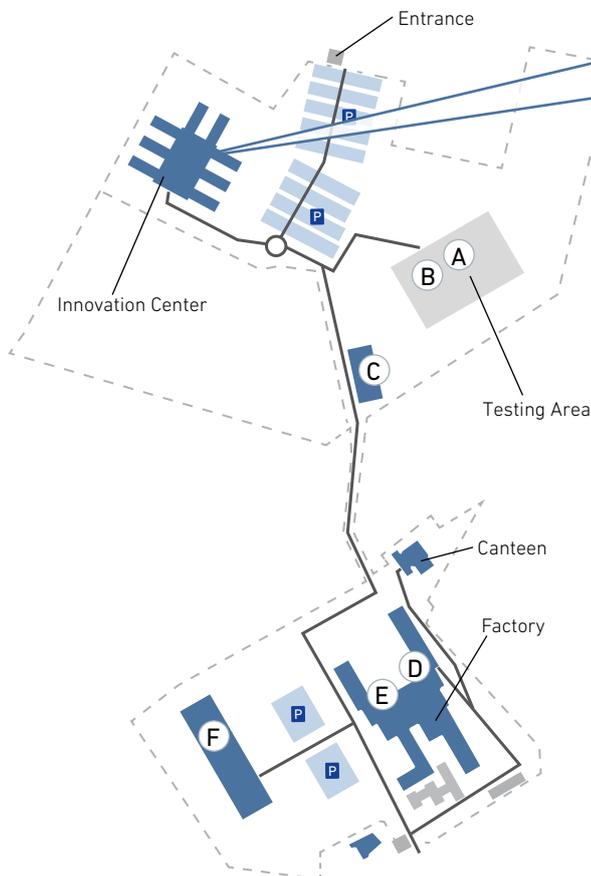


LOCATION MAPS

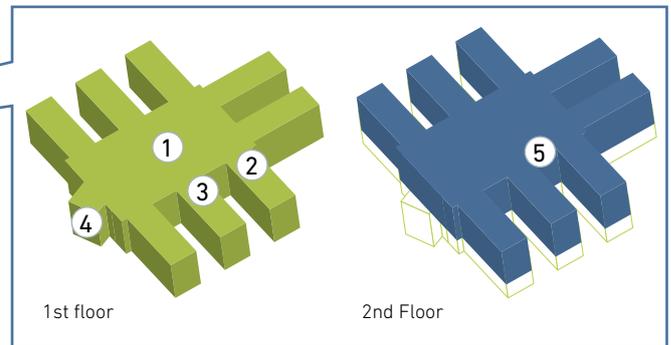
HOW TO FIND THE ROSEN GROUP IN LINGEN



MAP OF THE ROSEN SITE IN LINGEN



MAP OF THE INNOVATION CENTER



- 1 Venue ("Rotrium")
- 2 Technical Workshops
- 3 Technical Workshops
- 4 Entrance
- 5 Prayer Room

Live Technology Demonstrations Stations

- A Pull Test of 20" Magnetic Flux Leakage Tool (MFL-A)
- B Challenging Diagnostics Division
- C EMAT Flowmeter
- D Low Flow, Low Pressure Bi-Directional Crawler
- E Tank Bottom Inspection (TBIT) and External Precision Piping Inspection IFSE
- F RoCoat Pipeline Coating, Intelligent Plastics

