

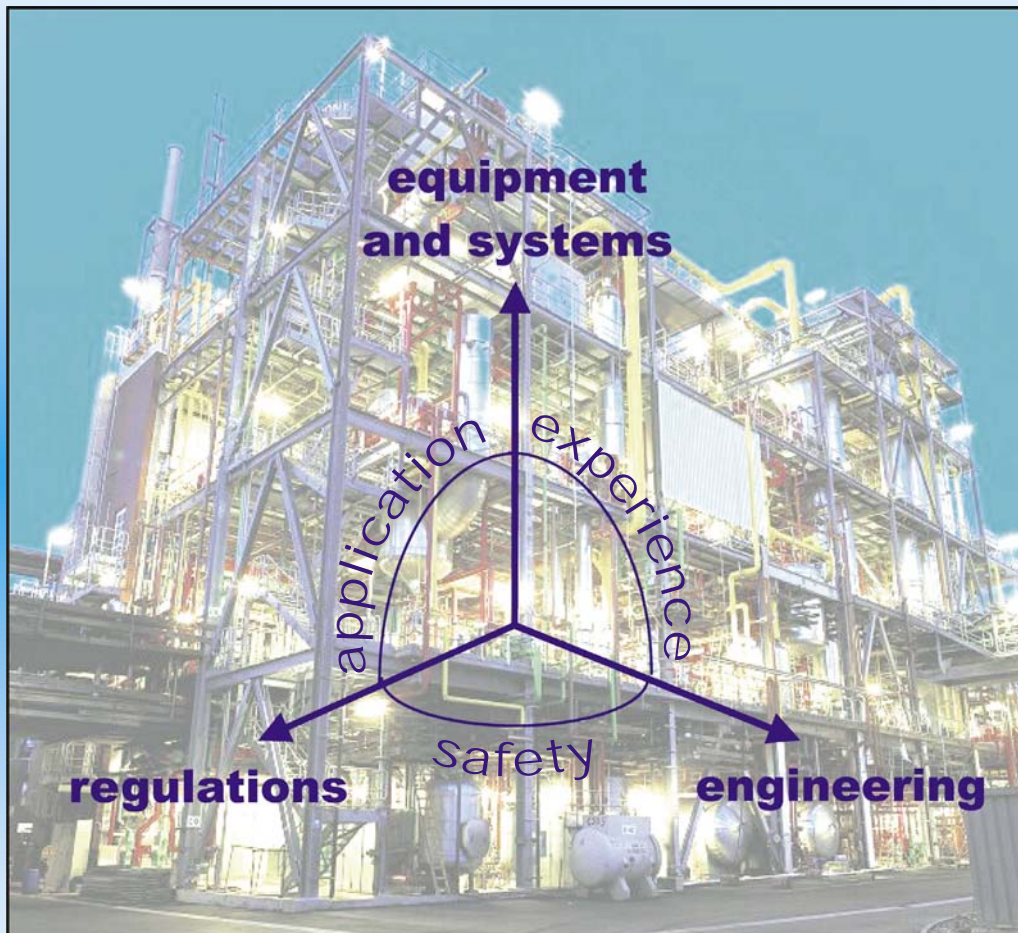
Programme

2nd

Petroleum and Chemical Industry Conference Europe -
Electrical and Instrumentation Applications

October 26 - 28, 2005 Basle, Switzerland

PCIC Europe 2005



PCIC Europe 2005

2nd Petroleum and Chemical Industry Conference Europe - Electrical and Instrumentation Applications

October 26 - 28, 2005 Basle, Switzerland

Conference Site

Ramada Plaza Basel Hotel
Messeplatz 12
CH-4058 Basel
Switzerland
Phone: +41 61 5 60 40 00
Fax: +41 61 5 60 55 55
eMail: basel.plaza@ramada-treff.ch



Welcome to Basel



On behalf of the Local Committee in Basel, I'm happy to welcome you to the PCIC Europe 2005 Conference. Please note: the clocks tick differently in Basel! Besides being a lively industrial and corporate services city, it offers visitors great cultural variety that ranges from theatre to unusual museums and collections – not to mention the joys discovered by taking a stroll through our charming and well-preserved “old town”.

Basel is home to some of the world's leading manufacturers of chemicals and pharmaceuticals. Ever larger production plants are springing up in and around the city, despite the fact that the companies domiciled here are spreading their production to all the continents as globalization progresses. Which, of course, throws the spotlight on the crucial importance of questions relating to production, equipment, installations, and safety aspects here just as it does elsewhere.

The chemical and pharmaceutical industries in Basel look back on a long tradition. It all began in the dye-works of old. In the course of fabricating and experimenting with their own equipment for dyeing decorative silk ribbons, these enterprises accumulated a great deal of experience in the handling of chemical substances. Not that Basel was predestined to become a major chemical industry location: the coal-tar dye industry – and therefore the organic chemical industry – really had its beginnings in England in 1856. Two years after that, development work began in Basel with the discovery of the red dyestuff fuchsine. Alexander Clavel was the first to produce fuchsine, followed by the Ciba company in Basel in 1859. The same year saw the extract factory of the Geigy trading company, later J.R. Geigy AG, start producing coal-tar dyes. Another starting point for the development of the new industry was the Basel Gasworks.

In 1862 it started distilling its coal tar byproduct to obtain crude aniline. In 1886 the chemical factory Kern & Sandoz, later to become Sandoz AG, was established for the production of aniline dyestuffs. The incipient F. Hoffmann-La Roche AG saw the light

of day in 1896. Basel's museums and art collections also make the city well worth visiting. The Basel Public Art Collection, one of the most impressive in Switzerland, embraces the Museum of Art (works by K. Witz, H. Holbein the Younger, the Upper Rhine Swiss school, paintings of the Flemish and Dutch school, Swiss masters of the 18th–20th centuries, 19th century French painters, important examples of cubism and classic modern such as Picasso), the Collection of Copper Engravings and the Museum for Contemporary Art. The Historical Museum shows official relics, pieces from the Münster treasures, parts of the famed Amerbach Collection, goldsmithery, musical instruments, and archeological artefacts from the city's beginnings and examples of its handicrafts. The most important elements of the renowned Ethnological Museum and the Swiss Folklore Museum comprise collections of the art of Oceania, the ancient Americas, Africa and Europe, as well as the history of textiles. Basel has always boasted, and still boasts, a strong tradition of art patronage that enables the city to maintain and keep expanding these collections. One of the newest museums that illustrates this point is the Jean Tinguely collection. Influenced by constructivism, the artist transformed his earlier wire-based reliefs into bizarre machines with the aid of mechanical kinetics.

What's more, this year's PCIC Conference also coincides with the Basel's traditional Autumn Fair (Herbstmesse). In the year 1471, German king Friedrich III granted Basel the right to hold two fairs every year. Only the Autumn Fair has survived – with merry-go-rounds, all sorts of rides, and stalls selling everything under the sun at five different locations in the city. Our conference hotel is situated at one of them, Exhibition Square.

I'm looking forward to seeing you at the PCIC Conference. Besides contributing to our conference, perhaps you'll find the time to appreciate some of our city's many cultural aspects.

Peter Thurnherr

The PCIC-Europe Conference 2005



The Petroleum and Chemical Industry Committee Europe (PCIC Europe) invites you to attend the second conference in Basle (Switzerland), on October 26 – 28, 2005.

The first PCIC Europe Conference took place in 2004 in Basle, Switzerland. More than 160 participants visited the conference and the end of Conference questionnaire also highlighted the wish of the participants to continue the PCIC Conference as an annual event. The path for the coming years of the PCIC conference

has been paved and will lead the Conference to The Netherlands (2006), France (2007), Spain (2008) and Germany (2009). This roadmap will put a heavy burden on the shoulders of the members of the PCIC-Europe Executive and Technical Committee, but we have a vision and a mission to accomplish this.

The vision of PCIC Europe is:

The PCIC Europe Conference wants to be the premier European forum for the exchange of experience of practical applications of electrical and instrumentation technology in the Petroleum, Chemical and Pharmaceutical Industry (PCI).

The mission of PCIC Europe is:

- To hold the European Conference on Electrical and Instrumentation Applications in the Petroleum, Chemical and Pharmaceutical Industry (PCI)
- To support the exchange of experience and information among experts from suppliers, application, science and authorities
- To promote technology trends relating to electrical and instrumentation technology in the Petroleum, Chemical and Pharmaceutical Industry (PCI)
- To sponsor appropriate European guidelines
- To provide opportunities for professional development
- To stimulate the technological and the economical progress.

The Call for Paper for 2005 has been extremely successful in terms of 59 papers, which have been received. The Technical Committee had the difficult task to select 28 papers for the conference, but succeeded with honours.

You are kindly invited to register for the Conference and also to include into your calendar the next PCIC-Europe Conference, which will take place in The Netherlands, 7 – 9 June, 2006.

René Ouëndag

Introduction to the technical programme



The success of a technical conference depends essentially on the quality of the papers that are presented. In addition to a careful selection of the proposed abstracts, the PCIC Executive & Technical Committee provides peer review of all papers to be presented at the conference. This selection & review process helps ensure that the papers will be of high quality and of interest to the participants.

In order to achieve a good balance between end users, engineering companies, regulatory bodies and manufacturers, authors are invited to propose papers corresponding to the topics listed below as pertaining to the Petroleum (Oil & Gas Exploration, Production Refining), Petrochemical, Chemical and Pharmaceutical Industries:

1. Safety in the Workplace
2. Experiences from Users with Regulations and Standards
3. Electrical and Instrumentation (E&I) Engineering Practices
4. Equipment, Systems and Components
5. Operation, Maintenance, Repair, Asset Management and Qualification of Personnel

Our industry is undergoing constant change at an ever accelerating rate. Participation in the PCIC-Europe Conference is one of the most effective means of getting the information needed in order to best cope with changing regulations and a modified business landscape.

Terence Hazel

Executive and Technical Programme Committee

René Ouëndag, Shell Global Solutions (NL), Chair
Terence Hazel, Schneider Electric (F), Secretary
Thorsten Arnhold, R. Stahl (D)
Reinhold H. Bietzker, Endress+Hauser (D)
Hasso Drathen, NAMUR (D)
Jürgen George, Pepperl+Fuchs (D)
Klaus de Haas, dH-Consult (D)
Colin Henderson, Ex-PERTS (UK)
Clife Hermanowski, Cooper Crouse Hinds (D)
Ben Johnson, IEEE-PCIC (USA)
Uwe Klausmeyer, PTB (D)
Patrick Leroux, TOTAL (F)
Heribert Oberhem, Bayer Industry Services (D)
Volker Pandel, Infracore Höchst Technik (D)
Francois Schlessinger, Clariant Produkte (Schweiz) (CH)
Gerhard Schwarz, Cooper Crouse Hinds (D)
Peter Thurnherr, thuba Ltd (CH)
Dieter Westerkamp, VDI/VDE-GMA (D)
Markus Winzenick, ZVEI (D)

Supporting Organisations

EUREL – Electrical Engineers of Europe
IEE – The Institution of Electrical Engineers
IEEE PCIC North America
NAMUR – Interessengemeinschaft Prozessleittechnik der chemischen und pharmazeutischen Industrie
PTB – Physikalisch-Technische Bundesanstalt
VDI/VDE-Gesellschaft Mess- und Automatisierungstechnik (GMA)
ZVEI – Zentralverband der Elektrotechnik und Elektronik Industrie (Electrical and Electronic Manufacturers' Association)

Official conference reception: Wednesday, October 26, 2005, 18:00 h

All conference participants and their accompanying persons are invited to join the official Conference Reception at the 1st floor of the conference site at the Ramada Hotel.

18:45 h Music band

19:00 h Opening: René Ouëndag / Peter Thurnherr

19:15 h 1st Welcome Address

19:30 h 2nd Welcome Address

19:45 h Music band

Drinks and finger food (free of charge) will be served and music entertainment is provided.
The Registration Desk will be open during the reception.

Organisation Committee

Marcus Conein, VDI Wissensforum IWB (D)
Helga Rosenzweig, VDI Wissensforum IWB (D)
Peter Thurnherr, thuba Ltd (CH)

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Email: rosenzweig@vdi.de / conein@vdi.de
Homepage: www.pcic-europe.com

Hospitality Suites

All participants are invited to visit the Hospitality Suites, which are provided at the Ramada Hotel by sponsoring companies, in order to come together with a drink and snack and exchange experiences in an informal atmosphere.

More information about where to find the hospitality suite of which each sponsoring company will be given at the hotel on site.

The hospitality suites will be open on

**Wednesday, October 26, at 20:00 h after the Official Reception,
Thursday, October 27, at 18:15 h after the lecture sessions.**

During the lecture sessions the suites will be closed.

Schedule at a Glance

Wednesday, October 26, 2005		
18:00 – 20:00 h	Official Conference Reception	
20:00 h	Hospitality Suites (opened for all participants)	
Thursday, October 27, 2005		
09:00 – 09:15 h	Welcome and opening	
09:15 – 10:45 h	Plenary I	
10:45 – 11:15 h	Coffee Break	
11:15 – 12:45 h	Plenary II	
12:45 – 14:15 h	Lunch	
14:15 – 15:45 h	Engineering I	Equipment I
15:45 – 16:15 h	Coffee Break	
16:15 – 17:45 h	Safety I	Asset Management/ Regulations I
18:00 h	Hospitality Suites (opened for all participants)	
Friday, October 28, 2005		
09:00 – 10:30 h	Engineering II	Safety II
10:30 – 11:00 h	Coffee Break	
11:00 – 12:30 h	Equipment II	Asset Management/ Regulations II
12:30 – 14:00 h	Lunch	
14:00 – 15:30 h	Engineering III	Asset Management/ Regulations III
15:30 – 16:00 h	Coffee Break	
16:00 – 17:30 h	Equipment III	Safety III

Technical Programme on Thursday, 27th October 2005

Welcome and opening	
09:00 h – 09:15 h, Room 1-4 René Ouëndag , Shell Global Solutions (NL), Chair of the PCIC-Europe technical programme and executive committee	
Plenary Session I	
09:15 h – 10:45 h, Room 1-4 Session Chair: Klaus de Haas , dH-Consult (D)	
Large scale use of active filters associated with VSD technology -Lessons Learned- James Routledge , TOTAL (UK), Angel Avila , Sincor (VE), Jean-Charles Guilhem , ABB (F)	
Asset Management and Cost Saving Maintenance Strategy based on Risk-Informed Decision Making Robert Kauer , TÜV SÜD (D), Hubert Sacher , TÜV SÜD (D)	
10:45 h – 11:15 h Coffee Break	
Plenary Session II	
11:00 h – 12:30 h, Room 1-4 Session Chair: Patrick Leroux , TOTAL (F)	
Partial stroke testing of control and emergency shutdown valves in respect to safety instrumented function Thomas Karte , SAMSON (D), Jörg Kiesbauer , SAMSON (D)	
Fieldbus systems in process industries for zone 1 and 2 installation Gunther Kegel , Pepperl + Fuchs (D), Gunther Rogoll , Pepperl + Fuchs (D)	
12:45 h – 14:15 h Lunch	
Session Engineering I	Session Equipment I
14:15 h – 15:45 h, Room 1-2 Session Chair: René Ouëndag , Shell Global Solutions (NL)	14:15 h – 15:45 h, Room 3-4 Session Chair: Francois Schlessinger , Clariant Produkte (Schweiz), (CH)
Modern loading and dispatch systems for tank farms Horst Friedrich , R. Stahl HMI Systems (D), Fritz G. Micheel , Cegelec Anlagenbau und Automatisierungstechnik (D)	Use of optical equipment of maintenance in hazardous areas Heino Bothe , Physikalisch-Technische Bundesanstalt (PTB), Ulrich Johannsmeyer , Physikalisch-Technische Bundesanstalt (PTB), Peter Thurnherr , thuba AG
Operator experience of power generation management in Oil and Gas production industries Franck Rey-Bethbeder , TOTAL (F)	Security considerations for networks in automation systems Hubertus Böhm , Hirschmann Electronics (D), Karlheinz Niemann , Fachhochschule Hannover (D)
15:45 h – 16:15 Coffee Break	
Session Safety I	Session Asset Management/Regulations I
16:15 h – 17:45 h, Room 1-2 Session Chair: Reinhold Bietzker , Endress+Hauser (D)	16:15 h – 17:45 h, Room 3-4 Session Chair: Terence Hazel , Schneider Electric (F)
Installation technology for safety related fieldbus Thomas Kasten , Pepperl+Fuchs (D), Udo Hug , Infracor Wiesbaden Technik (D)	Further Experience in the Use of Existing RTDs in Windings of Motors and Generators for the Measurement of Partial Discharges Claude Kane , Alexander Golubev , Eaton Electrical Predecativ Diagnostics (USA), Christian Bouwmeester , Eaton Eletric (NL)
Electrostatic Ignition Hazards in the Process Industry Martin Glor , Swiss Institute for the Promotion of Safety and Security (CH)	SIL-Validation of Safety Instrumented Loops in Use by Statistical Methods Lothar Litz , University of Kaiserslautern (D), Daniel Düpont , University of Kaiserslautern (D), Pirmin Netter , Infracor Höchst (D)
18:00 h Hospitality Suites	

Technical Programme on Friday, 28th October 2005

Session Engineering II	Session Safety II
<p>09:00 h – 10:30 h, Room 1-2 Session Chair: Jürgen George, Pepperl+Fuchs (D)</p> <p>Better energy management through precise flow calculation and advanced data acquisition and management Madhukar Puniani, Stefan Woerhle, Endress+Hauser, Wetzler (D)</p> <p>Hart Integration with process automation systems Ronald Helson, HART Communication Foundation (USA), Jean-Luc Griessmann, HART Communication Foundation Europe (CH)</p>	<p>09:00 h – 10:30 h, Room 3-4 Session Chair: Colin Henderson, Ex-PERTS (UK)</p> <p>SIL rated protection relays meet IEC 61508 safety requirements without debasing process availability Franck Gruffaz, SCHNEIDER ELECTRIC (F), Jean Pierre Signoret, TOTAL (F), Dominique Charpentier, INERIS (F)</p> <p>Can New Technology Reduce the Cost of Safety and High-Availability in Programmable Electronic Systems? John Cusimano, SIEMENS (USA)</p>
<p>10:30 h – 11:00 h Coffee Break</p>	
Session Equipment II	Session Asset Management/Regulations II
<p>11:00 h – 12:30 h, Room 1-2 Session Chair: Ben Johnson, IEEE-PCIC (USA)</p> <p>An Intelligent Load Shedding (ILS) System Technology Application in a large Industrial facility Jacques Tastet, Technip (F), Shervin Shokooh, Operation Technology (USA), Gary Donner (USA)</p> <p>Unleashing the power of sensor diagnostics John Salusbury, Endress+Hauser Consult (CH)</p>	<p>11:00 h – 12:30 h, Room 3-4 Session Chair: Markus Winzenick, ZVEI (D)</p> <p>Automation of Performance Monitoring in an Industrial Environment R. Jorewitz, A. Münnemann, U. Epple, RWTH Aachen (D), R. Böckler, W. Wille, R. Schmitz, Innovene Deutsche BP (D)</p> <p>Field Instruments Support Maintenance Hartmut Flämig, SIEMENS (D)</p>
<p>12:30 h – 14:00 h Lunch</p>	
Session Engineering III	Session Asset Management/Regulations III
<p>14:00 h – 15:30 h, Room 1-2 Session Chair: Gerhard Schwarz, Cooper Crouse Hinds (D)</p> <p>Assessment method for ignition hazards caused by mechanically generated ignition sources Michael Beyer, Physikalisch-Technische Bundesanstalt PTB (D)</p> <p>How to safeguard computer systems in process plants Sven Kempf, SIEMENS (D)</p>	<p>14:00 h – 15:30 h, Room Osaka-Samarkant Session Chair: Volker Pandel, Infracore Höchst Technik (D)</p> <p>The Most Ignored Maintenance Electrical Item in the Plant Electrical Power Distribution System and Practical Solutions Gabriel Paoletti, Eaton Electrical (USA), Marc Stephens, Eaton Electrical (USA), George Herman, Eaton Electrical (USA), Michael Whitehead, Eaton Electrical (USA)</p> <p>Impact of the quantitative aspects from the IEC/EN 61508 on safety systems Patrick Lerévérénd, Pepperl+Fuchs (D), Andreas Hildebrandt, Pepperl+Fuchs (D)</p>
<p>15:30 h – 16:00 h Coffee Break</p>	
Session Equipment III	Session Safety III
<p>16:00 h – 17:30 h, Room 1-2 Session Chair: Hasso Drathen, NAMUR (D)</p> <p>Specifications for Integrating Fieldling devices in Engineering Tools for Field Devices Manfred Dietz, Sven Seintsch, Infracore Höchst Technik (D)</p> <p>New Level of Fiscal and Custody Transfer Metering of Crude Oil with Coriolis Massflow Meters Ton Leenhoven, Endress+Hauser Flowtec (CH)</p>	<p>16:00 h – 17:30 h, Room 2-4 Session Chair: Heribert Oberhem, Bayer Industry Services (D)</p> <p>Application of EIC 61511 Gerhard Klein, TÜV SÜD (D), H. C. Schröder, TÜV SÜD (D) W. Voigt, ABB (D)</p> <p>ATEX European Mandatory Scheme and IECEx International Voluntary Scheme. Do these schemes have a future? Michel Brénon, BV/LCIE (F)</p>

General information

Hotel accomodation

The Ramada hotel is the preferred hotel for accomodation since the conference and the hospitality suites are also located in the Ramada hotel. A special room rate until September 14, 2005 of 220 CHF can be obtained with the reservation code "PCIC".

Ramada Plaza Basel Hotel
Messeplatz 12
CH-4058 Basel
Switzerland
Phone: +41 61 5 60 40 00
Fax: +41 61 5 60 55 55
eMail: basel.plaza@ramada-treff.ch

For other hotels please contact the local tourist information at <http://www.baseltourismus.ch>.

Arriving in Basle

By train: Leave the train at the station "Basel Badischer Bahnhof". The Ramada hotel is about 400m apart from the train station next to the Fairground "Messe".

By car: Please follow the signs "Messe" and use the parking garage "P Messe" which is directly opposite to the Ramada hotel.

By air: The EuroAirport Basle-Mulhouse-Freiburg is 20 minutes by car from the Ramada Hotel. Different European airlines offer quick connections to 44 European cities. All intercontinental direct flights go to Zurich airport, which is a 55-minute train journey from Basle.

Conference Language

The conference language is English, no interpretation in any other language.

Registration fee

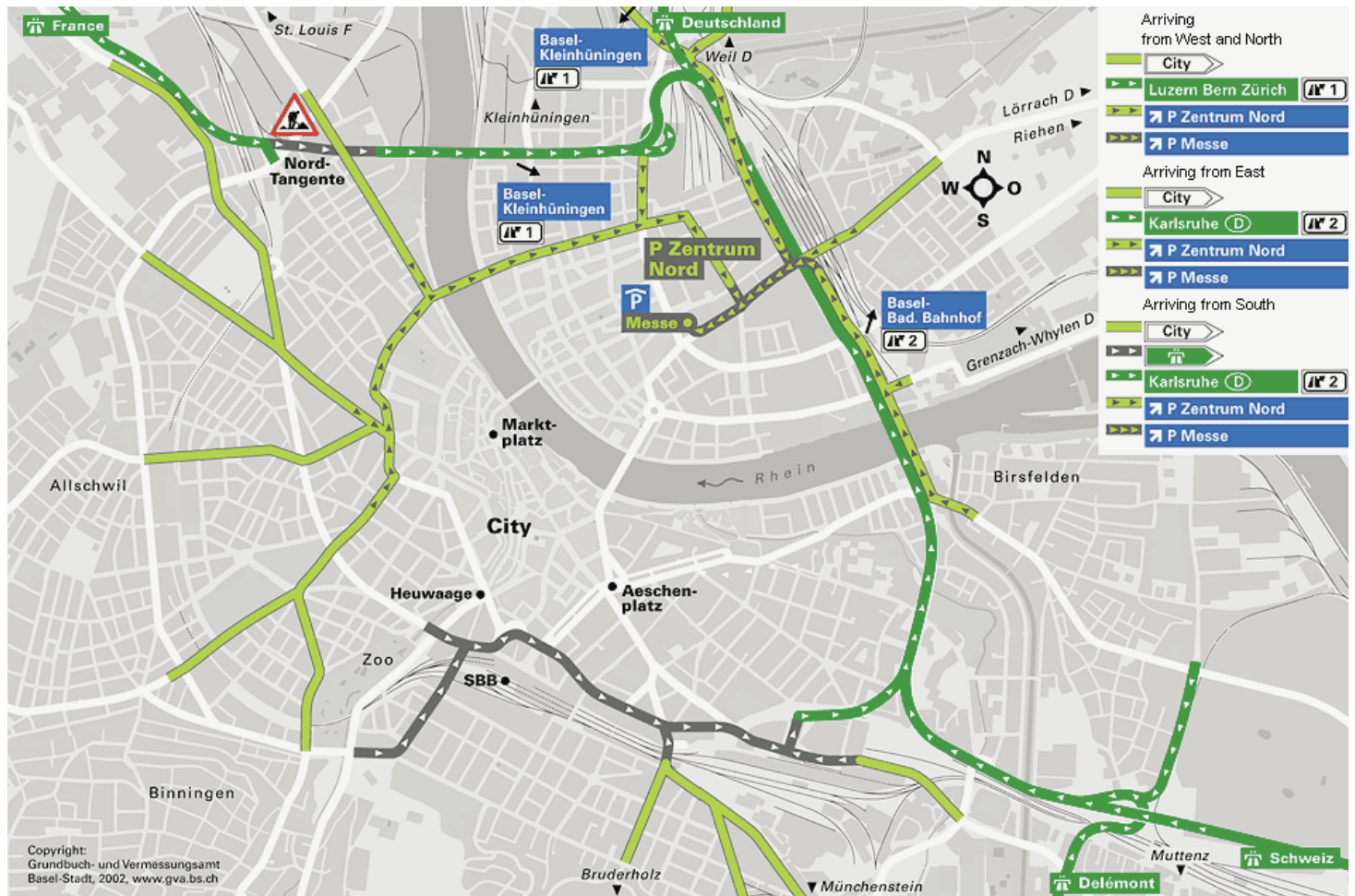
The registration fee per person includes the conference record, the list of participants, official reception as well as lunch and coffee breaks.

Registration fee before September 12, 2005
690 EUR (incl 16% VAT)

Registration fee after September 12, 2005
800 EUR (incl 16% VAT)

Accompanying person (incl. reception, lunch 116 EUR (incl 16% VAT) and coffee breaks only)

Accompanying persons are not permitted to attend technical sessions nor do they receive a copy of the conference record.



General information

Registration

Please complete and send the registration form by **mail** to

VDI Wissensforum IWB GmbH
PCIC Europe
Customer Care Center
P.O. Box 10 11 39
40002 Duesseldorf
Germany

or by **fax** to

Fax +49 211 6214 -154

Online registration is also provided.
Please visit www.pcic-europe.com.

Please use a separate form for each participant. Upon receipt of the completed form the registration will be confirmed by sending a confirmation letter as well as the invoice for the registration fee for your files. Payment for non EU countries should be made by credit card. Late registration at the conference site is also accepted.

Registration and Reception Desk during the conference

Registration desk at the conference site on
September 26 – 28, 2005
Ramada Hotel
1st floor

Messeplatz 12, 4058 Basel, Switzerland
Phone: +41 61 5 60 40 00

Wednesday, October 26, 2005	15:00 – 20:00 h
Thursday, October 27, 2005	08:00 – 19:00 h
Friday, October 28, 2005	08:30 – 17:00 h

Cancellation

Terms and Conditions: Upon registering, the participant accepts the terms and conditions of VDI Wissensforum IWB GmbH. Cancellations must be made in writing. If registration is cancelled 14 days prior to commencement of the conference, an administration fee of EURO 50 plus VAT will be charged. After this date, the invoiced participation fee is payable in full. The postmark is decisive. In this case the conference documents will, upon request, be sent to the participant. It is possible for someone to attend the course instead of a registered person by arrangement with VDI Wissensforum IWB GmbH. If a course has to be cancelled due to unforeseen circumstances, participants will be immediately notified. In this case, the participation fee will be fully refunded if already paid. In exceptional cases, we reserve the right to change lecturers and/or the conference content without prior notice. In any event, the liability of VDI Wissensforum IWB GmbH is limited solely to the participation fee.

Registration Form

PCIC Europe 2005

(IWB) 338508

2nd Petroleum and Chemical Industry Conference
Europe - Electrical and Instrumentation
Applications

October 26 – 28, 2005 Basle, Switzerland

VDI Wissensforum
PCIC Europe
Customer Care Center
Postbox 10 11 39
40002 Duesseldorf
Germany

Surname	
First Name	
Acad. Title	
Company /Institute	
Department	
Country	
Post Code, City	
P.O. Box or Street	
Phone	
Fax	
E-Mail	

Registration fee Ref.: 338508			EUR
Registration fee, before September 12 (incl. 16% VAT)	09		690 EUR (incl. VAT)
Registration fee, after September 12 (incl. 16% VAT)	01		800 EUR (incl. VAT)
Accompanying person (incl. 16% VAT), no participation in conference, no proceedings	N2		116 EUR (incl. VAT)
Surname:	First Name:		

Payment by Credit Card for non-EU countries is necessary!

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Card number: _____ Expiry date (MM/YY): ____/____

Amount: _____ EUR

If address is different from the address above, please fill in here:

City, Date	
Signature	
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