MANAGING AGING PLANTS

Preserving industry in Europe with safe & sustainable operations for the future

3–4 March, 2015, Messe Düsseldorf Congress Center, Düsseldorf, Germany

Preliminary Program

A project of the Materials Technology Institute and KCI Publishing
MANAGING
AGING PLANTS

Preserving industry in Europe with safe & sustainable operations for the future

The Materials Technology Institute (MTI) in cooperation with KCI Publishing will organize a two-day Conference & Expo devoted to the topic of “Managing Aging Plants”, 3–4 March, 2015, at the Messe Düsseldorf Congress Center in Düsseldorf, Germany.

Goals

The goals of the meeting will be:

• to give participants a clearer understanding of challenges and problems faced when managing an aging plant for a safe & sustainable future;
• to provide a platform where knowledge and experience can be shared and where participants can build up a strong network of contacts to help them deal with the issues of managing aging plants
• to enable participants to better develop plans and strategies for the long term based upon the insights they gain at the event

Why a conference?

Many of the industrial plants currently in operation in Europe are about to reach, or have already surpassed, the life expectancies specified when they were originally designed and built. However, far from becoming obsolete and being discarded or dismantled, they continue to remain very productive for they are still vastly important to the profitability and success of our western economies. Nevertheless, in order to ensure that this status quo is maintained well into the future, plant managers must be able to guarantee that they can be kept economically sustainable and safe, as well as profitable.

Everyday practice has shown us that maintaining these facilities is by no means an easy task. For example, many of today’s managers do not have the academic background or the detailed engineering knowledge at their fingertips, which is essential for them to make the correct budgeting and strategy plans to keep their facilities not only economically viable, but also productive and safe. Similarly, many companies no longer have the skills and competencies in-house to tackle the problems which can be posed by an aging plant. What is clear, however, is that if managers do not have the knowledge immediately at hand themselves then they must be able to ask the right questions to ensure that the decisions they make are based on the correct assumptions and choices. At present, this is not always the case,
and a wrong decision can lead to failure of equipment, shut-
downs resulting in millions of euros in lost revenues, or, even
more importantly, loss of life. Equally, the challenges posed by
an aging plant cannot be seen in isolation as a simple economic
equation balancing profit and loss to risk and safety. The situa-
tion is far more complex. It is affected by policy making not only
made inside but also outside the company – think for example
of the role of regulatory bodies, insurers, maintenance service
providers, or pressures from public opinion to name but a few.
Many plants built in the 1970’s on the outskirts of cities find
themselves today surrounded by residential areas where present
day environmental norms are quite different to the standards
when they were originally built.

It is with this aim in mind that this two-day event has been put
together so that participants can not only gain a better under-
standing of the challenges and problems which they face in
ensuring safe and sustainable operations in their plants for the
future, but also to create a platform where awareness and expe-
rience about the complexities of managing aging plants can be
shared in both the conference and the expo and in the associat-
ed social networking programs.

At the end of the event, participants should feel that they are
better equipped with the knowledge to help them develop the
plans and strategies needed to ensure their facilities continue to
be successfully productive in the long-term.

The event will be focused on the European perspective and will
concentrate largely on the specific challenges posed by chemi-
cal, petrochemical, refinery, and gas facilities.

**Audience**

The content of the conference will be particularly of interest to:
- Technical staff and managers in producing, consulting, and
  engineering companies
- Suppliers and manufacturers
- Maintenance and inspection service organizations
- Regulatory bodies, and
- Executive decision-makers within these companies/bodies

**Social program**

In addition to a conference & expo, the two-day event will
also feature a social program. The entire event is designed not
only to provide a platform for gaining knowledge and sharing
experiences but also to establish and strengthen both new and
existing relationships in a convivial atmosphere and setting. In
this way, the event will provide a unique networking juncture.
Moreover, the direct business-to-business opportunities present-
ed in both formal business and relaxed social settings will ensure
that the most fitting occasions are available for you to achieve
successful business decisions, in a genuine way.

**Exhibition**

There will be an exhibition at the event for which it is possible
to take either a stand (two individual sizes) or a lounge to help
support your presence at the event and from which to carry out
business. See further the Floorplan and the Stand Reservation
Form on pages 14+15.
### Preliminary Conference Timetable

**Tuesday, March 3rd, 2015**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 am</td>
<td>Opening &amp; welcome address: John Aller, Executive Director, Materials Technology Institute, USA</td>
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<tr>
<td></td>
<td>This Elshof, CEO, KCI Publishing, The Netherlands</td>
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<tr>
<td>9:10 am</td>
<td>Neil Henry, Principal Materials Consultant, ABB Limited, UK</td>
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<tr>
<td></td>
<td>Managing Aging Plants – Ten years after Why has this theme become important within Europe and what are the implications? Why does it need to be addressed?</td>
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<tr>
<td>9:40 am</td>
<td>Pol Hoorelbeke, Deputy Senior Vice President HSE</td>
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<td></td>
<td>TOTAL Refining &amp; Chemicals, Belgium</td>
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<td></td>
<td>Paul de Brujin, Technical Integrity Advisor, HSE Division, TOTAL Refining &amp; Chemicals</td>
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<td></td>
<td>Managing aging plants from the perspective of a multi-national operator: TOTAL Refining &amp; Chemicals</td>
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<tr>
<td>10:10 am</td>
<td>Jeroen Vanmaesenbergh, Director BEMAS (Belgian Maintenance Association), Belgium</td>
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<td>Aging plants in North-West Europe: What can we learn from the perspective of the MORE4CORE project (Maintenance, Overall, and Repairs for COMPetitiveness of the North-West European Region?)</td>
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<tr>
<td>10:40 am</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>11:10 am</td>
<td>Workshop A: Risk-Based Inspection – Room 7a</td>
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<tr>
<td></td>
<td>Moderator: Christos Christogiou, Bayer Technology Services, Germany</td>
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<tr>
<td></td>
<td>Panellists: Jürgen Deiningen, TÜV SÜD Industrie Service, Germany</td>
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<td></td>
<td>Gerald Henk van Houten, the Netherlands</td>
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<td></td>
<td>Jarkko Räty, Service Solutions, Metso, Finland</td>
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<td></td>
<td>John Aller, Materials Technology Institute, USA</td>
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<tr>
<td></td>
<td>In the Risk-Based Inspection (RBI) Workshop we will look at how this process can lead to increases in plant reliability and availability. RBI examines equipment such as heat exchangers, pipelines, pressure vessels, piping and pressure relief devices in industrial/processing plants and ranks them according to risk of failure. It uses algorithms to prioritize and schedule inspections based on the probability that there will be material failures and planned downtime. It is therefore an essential tool in the search for reaching operational excellence. In a series of short presentations we will highlight how this Asset Performance Management tool is used to optimize the extent and intervals of inspections, based on site acceptable risk levels and operating limits, whilst, at the same time, mitigating risks as appropriate. RBI will be addressed in the following settings: Chemical and oil &amp; gas process industry, both upstream and downstream. Refineries. Non-continuous / batch production process industries. Power plants. The possibilities of cost reduction through the application of RBI will be presented. The current status of regulations with regard to RIMAP and European standards will be discussed. Through audience participation and open discussion we will attempt to provide ideas, suggestions or solutions for some of the challenges with which the audience is faced.</td>
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<tr>
<td>12:30 am</td>
<td>Lunch</td>
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<tr>
<td>13:30 pm</td>
<td>Paper Session A – Room 7a</td>
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<tr>
<td></td>
<td>Moderator: Jackie Aerts, DSM-GMMC, The Netherlands</td>
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<tr>
<td></td>
<td>Paper Session B – Room 6</td>
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<tr>
<td>13:30 pm</td>
<td>Management of aged equipment lacking documentation</td>
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<td></td>
<td>E. Chant, Becht Engineering, USA</td>
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<tr>
<td>13:55 pm</td>
<td>The use of fitness for service assessments in aging plants</td>
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<td>P. Schooren, Ciretrina Engineering, The Netherlands</td>
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<tr>
<td>14:20 pm</td>
<td>Lifetime extension projects at DSM</td>
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<td></td>
<td>J. Aerts, DSM, The Netherlands</td>
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<tr>
<td>14:45 pm</td>
<td>Coffee Break</td>
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<tr>
<td>15:10 pm</td>
<td>Workshop A: The role of Safety Culture and Safety Leadership in Managing Aging Plants – Room 7a</td>
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<tr>
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<td>Moderator: Dietlinde Jakobi, Schmidt + Clemens GmbH + Co. KG, Germany</td>
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<td>Leader: Sander Zwanikken, AdviiSafe Risk Management, The Netherlands</td>
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<td></td>
<td>Objectives: The workshop is focused on gaining an understanding of the role of safety culture in managing aging plants, and a better understanding of safety culture. In addition, an overview will be provided of available practical tools to improve safety culture within your organization and you will practice with the use of some of the tools. The underlying objective is to inspire you to start or continue considering safety leadership and provide a safe and healthy working environment for your employees, also in aging plants. Interactive, fun and inspiring In this workshop participants will practice with concrete exercises and real-life dilemmas. You will learn how you can demonstrate safety leadership and how you can work towards more proactive safety culture in your organization related to managing aging plants. The workshop is inspired by the Hearts &amp; Minds toolkit of Shell, developed by Shell and the University of Cambridge in The Netherlands. The following subjects will be covered either in plenary or in subgroups: Understanding your culture – what is the level of safety culture maturity in your own organization? How to improve safety leadership in your own organization? Creating safety awareness Improving supervision and managing mistakes and violations The Human Factor: risk or essential for success? Change management, where to start?</td>
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<tr>
<td>16:30 pm</td>
<td>Paper Session A – Room 7a</td>
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<td></td>
<td>Paper Session B – Room 6</td>
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<tr>
<td>17:10 pm</td>
<td>Ending</td>
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</tbody>
</table>

Please note that this conference timetable is a preliminary version and that the organizers reserve the right to make alterations. The final program will be distributed at the conference.
### Preliminary Conference Timetable

**Wednesday, March 4th, 2015**

#### Plenaries – Room 7a

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>9:00 am</td>
<td>John Wintle, Consultant Engineer, TWI, UK</td>
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<tr>
<td></td>
<td>Dale F. Hoffman, Director of Maintenance Improvement, Cristal, USA</td>
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<tr>
<td>Plant aging and the link to asset management</td>
<td>Stuart Pointer, Team Leader Mechanical Engineering, HSE, UK</td>
</tr>
<tr>
<td>9:30 am</td>
<td>Fuhuo Caldelari, Risk Engineering, Practice Leader Energy for Global Corporate in EMEA, Zurich, Switzerland</td>
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<tr>
<td></td>
<td>An insurere’s perspective on managing aging plants</td>
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<tr>
<td>10:00 am</td>
<td>Thomas Anlahr, Fraunhofer Institute for Material Flow and Logistics, Germany</td>
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<tr>
<td></td>
<td>Industry 4.0. Hope or opportunity?</td>
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<tr>
<td>10:30 am</td>
<td>Coffee break</td>
</tr>
<tr>
<td>11:00 am</td>
<td>Paper Session A – Room 7a</td>
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<tr>
<td></td>
<td>Improving the degradation mechanism studies for ageing plants</td>
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<tr>
<td></td>
<td>Rob Gommans, Materials &amp; Corrosion Consultants, The Netherlands</td>
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<td></td>
<td>Asset management solutions to improve value realiability,</td>
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<td>improve plant safety, and achieve cost savings in aging plants.</td>
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<td></td>
<td>M. Gore, Pentair, Germany</td>
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<tr>
<td>11:25 am</td>
<td>Sealing aging equipment</td>
</tr>
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<td></td>
<td>H. Dekker, Chesterston International, Germany</td>
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<td></td>
<td>Managing aging valves: valve conditioning monitoring</td>
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<td></td>
<td>R. Simpson and M. Billington, Siroca Diagnostica Ltd, UK</td>
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<tr>
<td>11:50 am</td>
<td>Optimizing valve maintenance using condition analysis</td>
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<td></td>
<td>J. Rätty, Metso Automation, Finland</td>
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<tr>
<td></td>
<td>Managing pressure safety in aging plants</td>
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<td></td>
<td>R.P. Bours, FIKE Europe, Belgium</td>
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<tr>
<td>12:15 pm</td>
<td>Experience with corrosion in the chemical industry</td>
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<tr>
<td></td>
<td>H. Leonhard and G. Grotch, TÜV Süd Chemie Service GmbH, Germany</td>
</tr>
<tr>
<td>12:45 pm</td>
<td>Thermo-hydraulic simulation and estimation of lifetime consumption</td>
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<td></td>
<td>A. Wotruba, R. Hölz, P. Freko, and A. Lehninger, Linde AG – Engineering Division, Germany</td>
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<tr>
<td></td>
<td>Degradation mechanisms and lifetime aspects of aluminium plate fin heat exchangers</td>
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<tr>
<td></td>
<td>R. Hölzl and H. Köpf, Linde AG – Engineering Division, Germany</td>
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<td></td>
<td>Supertight bolted joints – a way to minimize hot work and shut down periods</td>
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<td>T. Eriksen, Freudenberg, Oil &amp; Gas Technologies, Norway</td>
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#### Paper Session B – Room 6

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>11:00 am</td>
<td>Paper Session B – Room 7b</td>
</tr>
<tr>
<td></td>
<td>Monitoring pressure safety in aging plants</td>
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<tr>
<td></td>
<td>T. Sterenland, E. Stark, and D. Reiuthe, Outokumpu, Finland</td>
</tr>
<tr>
<td>11:50 am</td>
<td>Paper Session C – Room 6</td>
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<tr>
<td></td>
<td>A known risk is a calculable risk. You have to know your assets</td>
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<td></td>
<td>B. Kappelmann, DWV GL, Germany</td>
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</tbody>
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#### Lunch

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</thead>
<tbody>
<tr>
<td>13:15 pm</td>
<td>Lunch</td>
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</tbody>
</table>

#### Workshop A: Fitness-for-Service – Room 7a

<table>
<thead>
<tr>
<th>Time</th>
<th>Moderator: Neil Henry, Principal Consultant, ABB United Kingdom, UK</th>
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<tbody>
<tr>
<td>14:15 pm</td>
<td>Panelsists: John Hallett, Growhow, Chester, UK</td>
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<td></td>
<td>John Sharples, AMEC, UK</td>
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<td></td>
<td>Bernard McGrath, AMEC, UK</td>
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<td></td>
<td>John Wintle, TWI, UK</td>
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<td></td>
<td>Fitness-for-Service is a multi-disciplinary approach to determine whether structural components are fit for continued operation and service for a desired length of time into the future, and when they need to be replaced. The equipment may contain flaws, have sustained damage, or have aged so that it cannot be evaluated by use of the original construction codes. Today there is comprehensive consensus on industry recommended practices that can be used to analyze, evaluate, and monitor equipment for continued operation but these practices may pose challenges and uncertainties. This workshop will look to address various Fitness-for-Service challenges. The panels will provide a personal account of how Fitness-for-Service practices impact the everyday working lives. In this way they will open up a discussion with the audience to see how Fitness-for-Service principles can be more effectively applied in facilities to provide solutions for both now and in the future.</td>
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</tbody>
</table>

#### Workshop B: Corrosion under Insulation – Room 7b

<table>
<thead>
<tr>
<th>Time</th>
<th>Moderator: Michael Renner, Asset &amp; Corrosion Management Consultancy, Germany</th>
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</thead>
<tbody>
<tr>
<td>14:15 pm</td>
<td>Panelsists: Dr. Stefan Winnik, Director, SW Materials and Corrosion Ltd., UK</td>
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<tr>
<td></td>
<td>Gerianne van Raevs, Corrosion Engineer, Akzo Nobel, The Netherlands</td>
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<td>Youth Schweier, Head of Corrosion &amp; Inspection Management, Bayer Technology Services, Germany</td>
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<tr>
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<td>Highlights of the workshop will be as follows:</td>
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<tr>
<td></td>
<td>What is CUI?</td>
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<td>What type of assets are involved in the hydrocarbon &amp; chemical processing industry?</td>
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<tr>
<td></td>
<td>• Fixed equipment (reactors, vessels, columns, etc.)</td>
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<td></td>
<td>• Piping (including prefabricated piping)</td>
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<td></td>
<td>• Tanks</td>
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<td></td>
<td>Potential threats associated with CUI</td>
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<td>State-of-the-art mitigation strategies &amp; methods</td>
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<td></td>
<td>Design</td>
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<td></td>
<td>Corrosion prevention technology</td>
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<td></td>
<td>Inspection</td>
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<td>The audience will also be encouraged to pose own company challenges, which will be addressed in the context of knowledge sharing and experience exchange.</td>
</tr>
</tbody>
</table>

#### Workshop C: Plastic Materials in Corrosive Environments – Room 6

<table>
<thead>
<tr>
<th>Time</th>
<th>Moderator: Karin Jacobsen (Research Leader), Polymeric Materials in Corrosive Environments, Swerea KIMAB, Sweden</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:15 pm</td>
<td>The workshop will be organised by the polymer R&amp;D group at Swerea KIMAB (former Swedish Corrosion Institute).</td>
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<tr>
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<td>The workshop will be divided into a theoretical part focusing on the causes for service life limitations for polymeric materials in corrosive environments, and a more practically oriented part in which we will open discussions around some representative samples extracted from different corrosive environments. The theoretical part will discuss the different type of polymeric materials that are normally used in corrosive environments and their benefits and drawbacks. The different types of corrosive environments encountered and the type of degradation mechanisms that can give rise to are also presented. Results from inspection of process equipment and field and laboratory exposures of different materials in various processing streams (coupon testing) will be presented. It will be shown that from the data and knowledge achieved from this type of investigations it is possible to explain and understand failures and to predict the corrosion behaviour of plastics in different environments, also after long-term use and to determine service-life of plastic process equipment.</td>
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<td>In the practical part we will show and discuss samples which have been taken from various process equipment that have failed, have been replaced or are still in service. Experiences from our previous work have shown that valuable knowledge about the corrosion properties and the durability of plastics and rubber in different applications under practical conditions may be achieved by investigating these samples.</td>
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<tr>
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<td>Another important area is welding in process equipment after exposure to chemicals during service. This is a frequently encountered problem among end users of plastic process equipment where there are no general guidelines to rely on. Plastic welds often describe poor weldability as bubble formation, migration of &quot;wax like&quot; substances causing bad adhesion or sometimes the viscosity of the molten material is different, making welding difficult. Depending on the type of plastic material and the chemical environment there seem to be different reasons for the observed difficulties to weld. Problems with repair welding have been reported to occur after exposure to a large number of different media. This problem will be discussed both in the theoretical part and practical examples will be shown and discussed in the second part of the workshop.</td>
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<table>
<thead>
<tr>
<th>Time</th>
<th>Ending ceremony</th>
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</thead>
</table>
Jacko AERTS, DSM, The Netherlands

Lecturer and Moderator of the Materials Selection for Replacement & Interface Workshop

Jacko Aerts started his job as a Senior Consultant Materials and Corrosion within DSM’s Global Manufacturing Competence Centre in 2005. In this function he acts as a consultant and focal point for material and corrosion issues for all DSM plants worldwide. Presently he is also chairing two networking groups in The Netherlands: StudiekernCorrosie (A Core Study Group in Corrosion) and Contact Group on Corrosion in the Dutch Process Industry. After graduating from Delft University of Technology as a Metallurgical Engineer in 1986, Mr Aerts started working for DSM in the Materials & Corrosion Department, where he researched damage analysis, materials and corrosion. In the past Mr Aerts also worked as a Plant Engineering Manager in the Maintenance Department of DSM’s caprolactam plant in Geleen, The Netherlands.

John ALLER, USA

Opening and Welcome Address

John Aller has been Executive Director at the Materials Technology Institute since January, 2014. He is completing a career as a consultant to the process industries helping clients improve the performance of their physical assets. A lot of this work has been focused on Managing Aging Plants. He takes a holistic approach to asset management, recognizing that implementing and sustaining significant improvements requires changes in business processes, technology, and how people think and behave.

John started his professional career by spending twenty years working for a major multinational petrochemical company in a broad variety of technical and management capacities, starting as a maintenance engineer and ended up as the corporate manager of engineering. He spent the next twenty years working in a variety of companies as manager and a consultant in the asset management field. He retired as the President of Lloyd’s Register Americas, and has continued to consult in the field of Asset Management.

He graduated from the University of Illinois with a Bachelor’s Degree in Mechanical Engineering and a Master’s Degree in Materials Engineering.

Thomas ANLAHR, Fraunhofer Institute for Material Flow and Logistics, Germany

Plenary Lecturer on Industry 4.0: Just a Hype or a Real Opportunity?

Thomas Anlahr is a Research Associate in Department Facilities and Service Management at the Fraunhofer Institute for Material Flow and Logistics in Dortmund, Germany. He completed his studies in Logistics (dipl.) at the Technical University of Dortmund in August 2011. Since May 2014, he is a tutor in Logistics for the European Fernhochschule Hamburg in Germany. To date he has participated in a number of industrial and research projects with such companies as: Ressourcen effiziente Instandhaltungs-Logistik (ResIH), Marl-Colgne-Dortmund (Development of assistance systems and the creation of a strategy paper for the sustainable use of resources in the field of maintenance); Novartis Pharma AG (Creation of efficient processes with SAP in spare part stocks and maintenance); Fiat, Belo Horizonte, Brazil (Analysis of processes and identification of vulnerabilities in logistics); Thyssen-Krupp Steel AG Duisburg (Development of a logistical concept for stock management).

Dr. Fulvio CALDELARI, Zurich Insurers, Switzerland

Plenary Lecturer: The Insurer’s Perspective on Managing Aging Plants

Dr. Fulvio Caldelari has a Ph.D. (Dr. Nat. Sci.) in Chemical Engineering from the Swiss Federal Institute of Technology in Zürich, Switzerland. At Zurich Insurance (Risk Engineering) in Zurich Switzerland, he is the Practice Leader Energy for Global Corporate in EMEA. Before this he worked at Rimkus Consulting AG in Zurich, Switzerland as a Principal Consultant for their technical consulting services for insurance carriers, corporations, and attorneys in the industrial field. In the past he has also been Manager of Operations at the Cressier Refinery at Shell in Switzerland, and as a Process Engineer at the UOP Process Division in Chicago, Illinois, USA.

Christos CHRISTOGLOU, Bayer Technology Services, Germany

Moderator of the Risk-Based Inspection Workshop

Christos Christoglou is Head of Risk-Based Inspection Management OSS ALCM RIM at Bayer Technology Services in Leverkusen, Germany where he is in charge of fourteen people working from Bayer Technology Service’s Leverkusen, Dormagen, and Uerdingen offices. He provides leadership over the risk-based inspection taking place from these offices with appointed plant inspectors, and is further accountable for carrying out risk-based analyses on certain Bayer production facilities. Mr. Christoglou is also answerable for customer acquisition, project proposal preparation with regard to financial and technical matters, and for the contact with subcontractors. He is a risk-based management project leader.
risk analyst, trainer, and contact point for partnering companies, notified bodies, and customers. At Bayer Technology Services, he is also the representative at the DIN Committee for Inspection, an appointed German Risk-Based Inspection Expert to the CEN, and a member of the API Sub-Committee for Inspection. The projects he handles cover those within the Bayer Group and also Bayer customers worldwide in China, Russia, and Europe.

**Paul DE BRUIJN,**
**Refining & Chemicals TOTAL, Belgium**
**Plenary Lecturer on Managing Aging Plants from the Perspective of a Multi-National Operator (TOTAL Refining & Petrochemicals)**

Paul de Bruijn is a Mechanical Engineer and MBA. He started work as a technical inspector and became the Safety Manager of the Petrochemical Facility in Antwerp. After twenty years he joined the corporate HSE team of TOTAL Petrochemicals in Brussels in November 2004. In 2012 TOTAL Refining & TOTAL Petrochemicals were joined in TOTAL R&C. Within this organization he works as a Technical Integrity Advisor in the Operational Safety Division at Corporate Level. His activities include technical integrity audits, safety management audits, incident investigations, return of experience, and training and support.

**Thijs ELSHOF, KCI Publishing, The Netherlands**
**Opening and Welcome Address**

Thijs Elshof has been CEO of the KCI Group since September 2013. KCI Publishing is a multi-media publisher and conference organiser with a strong focus on industrial equipment used in the process industries. It is the publisher of Stainless Steel World magazine, Valve World magazine, Pump Engineer magazine, Edelstahl Aktuell (among other publications), as well as being the organiser of Stainless Steel World Conference & Expo, and a series of flow control and materials related events in Shanghai, Houston, Rio de Janeiro and Düsseldorf. The KCI Group and the Materials Technology Institute are the organisers of Managing Aging Plants Conference 2015 in Düsseldorf. Thijs studied International Marketing at Rijkshogeschool Usselland in Deventer, graduating in 2000. During the study he stayed for six month in the USA, working with a manufacturer of industrial ink- and coatings dispensing equipment in Pennsylvania. He started his professional career with KCI some fourteen years ago as manager online media, later taking on responsibility for KCI’s business in the Americas. In 2008 he was responsible for the successful launch of KCI’s office in Toronto, Canada. In 2013 Thijs became KCI’s CEO, taking on responsibility for the complete KCI Group with offices in Holland, Germany, Canada, China and Brazil.

**Neil HENRY, ABB Limited, UK**
**Plenary Lecturer and Moderator of the Fitness-for-Purpose Workshop**

Neil Henry is Principal Materials Consultant at ABB Limited in the UK. He has over thirty-two years of industry experience in equipment failure analysis, root cause analysis, materials selection, and repair of equipment in service. Throughout his career, Neil has maintained a hands-on approach to technical problem solving related to materials of construction, in a wide range of process industries. This has developed into specialist knowledge of managing deterioration of aging process equipment. Neil has delivered many papers on this subject. He is active in helping clients with all aspects of management of increasingly aged process equipment, around the world. He works closely with a range of businesses, Industrial Associations and Regulatory Authorities. He is a Fellow of the Institute of Materials, Mining and Minerals and a Chartered Engineer.

**Dale F. HOFFMAN, Cristal, USA**
**Plenary Lecturer on Risk-Based Asset Integrity Program: The Journey**

Dale Hoffman is Director of Maintenance Improvement for Cristal, in which position he manages the global manufacturing reliability, maintenance, and asset management programs for seven major Cristal manufacturing sites, including the US, and Brazil. He holds a Bachelor of Science in Mechanical Engineering from Iowa State University. Mr Hoffman has significant experience in Inorganic and Petrochemical manufacturing including Project Engineering, Maintenance, Reliability, Mechanical Integrity and Production. Over the past three years he spent an extensive amount of time in Saudi Arabia and England to implement reliability and maintenance improvement programs.

**Gerhard HÖLTMANN, TÜV Austria**
**Plenary Lecturer: Managing Aging Plants in the European Landscape of Various National Regulations**

Gerhard Höltmann is a graduate of the Technical University of Vienna, Austria in Mechanical Engineering-Process Engineering. At TÜV Austria Services GmbH, he is Head of the Pressure Equipment Division. He is a member of the Austrian Confirmity and In-Service Inspection Body Association, a Member of CECO International, and Chairman of CECO TC-CP. He has been with TÜV Austria for twenty-four years. Over the years he has published a number of articles in professional journals. His key qualifications are that he is a welding engineer and a boiler inspector.
Paul HOORELBEKE,  
Refining & Chemicals TOTAL, Belgium

Plenary Lecturer on Managing Aging Plants from the Perspective of a Multi-National Operator (TOTAL Refining & Petrochemicals)

Paul Hoorelbeke has a Masters degree in Engineering and a Masters degree in Safety. He also holds a Ph.D. in Applied Science. In addition to being Deputy Senior Vice President HSE Refining & Chemicals at TOTAL, he also holds the appointment of being a Visiting Professor at the South China University of Technology. In 2012 his research was recognized with the EPSC Award. This is a yearly award given by the European Process Safety Centre to an individual for an outstanding contribution in the field of process safety. He is also winner of the ITW award 2012 for “Best Practice in Process”, and a winner of the TOTAL Technology Prize 2012 with a certificate of merit for transverse technology. He is an ISRS accredited safety auditor since 1997 and a member of the Technical Experts Group on the Buncefield Explosion Mechanism. Further, he is a leader of the TOTAL CTG Safety Engineering Network (TOTAL’s global network of experts).

Karin JACOBSON, Swerea, Sweden

Moderator of the Plastic Materials in Corrosive Environments Workshop

Karin Jacobson has a Ph.D. from the Department of Fibre and Polymer Technology at the Royal Institute of Technology in Stockholm, to which she is also affiliated as an Associate Professor. She currently works as Researcher Leader in the Polymeric Materials Group at Swerea KIMAB AB in Kista outside Stockholm in Sweden. Her main research interests are long-term properties of plastics and rubbers and the use of polymeric materials in corrosive environments.

Dr. Dietlinde JAKOBI,  
Schmidt + Clemens, Germany

Moderator of the Steam Reformer Furnaces Workshop

Dr. Dietlinde Jakobi holds a Masters degree in Technical Chemistry and a Ph.D. in Natural Sciences from the Technical University of Aachen in Germany. She has more than fifteen years of experience in the development, implementation, inspection, and life assessment of cast and spun cast alloys for the chemical, steel, and petrochemical industries. She is currently the Head of the Schmidt + Clemens “Research & Development Services” Department. In this role her responsibilities cover all five Schmidt + Clemens manufacturing sites worldwide in connection with R&D activities, customer consulting services, and production support. During the course of several years as a R&D manager she has successfully developed a number of new technologies, which have been applied worldwide to different industries.

Stuart POINTER, HSE, UK

Plenary Lecturer: Managing Plant Aging: The Approach taken by the Great Britain COMAH Competent Authority

Stuart Pointer is the HM Principal Specialist Inspector, GB Health & Safety Executive. He has been employed by the Health and Safety Executive for fourteen years, in various roles associated with the regulation of onshore major hazards. Since 2009, he has had the lead for mechanical engineering technical policy in the Chemicals, Explosives and Microbiological Hazards Division as well as managing a team of operational mechanical engineering specialist inspectors. Since 2010, Stuart has also led the implementation of the COMAH Competent Authority’s Strategic Priority on Aging Plant, which has encompassed both field intervention work and, in parallel, work with industry stakeholders to develop solutions to issues found through the intervention programme. Prior to joining HSE Stuart worked in the Naval support industry.

Michael RENNER, Asset & Corrosion Management Consultancy, Germany

Moderator of the Corrosion under Insulation Workshop

Michael Renner, Consultant at Asset & Corrosion Management Consultancy, Germany holds an Engineering degree from Germany and a Ph.D. from Teeside University, UK in Mechanical Engineering/Metallurgy. He has worked in several industries such as the steel industry, the hot dip galvanizing industry, the non-ferrous metal industry, and has spent twenty-five years in the chemical process industry with Bayer and its external customers. His working experiences centered in the first ten years around Corrosion Prevention Strategies, Materials Optimization & Development, and Root Cause Failure Analysis. He has worked in metallurgical engineering, inspection in Germany and the US, and has extended his working area into the field of Mechanical Integrity including Materials Engineering. In the last few years he has been working in the field of Asset Life Cycle Management, Risk Management (RBM& RBI) and Corrosion Management as a Principal Consultant and also as Executive Manager leading a global organization through areas that include Global Product Management.
Knuth SCHWEIER,  
Bayer Technology Services, Germany

Panelist: Corrosion under Insulation Workshop
Knuth Schweier is Director/Principal Expert Mechanical Integrity of Bayer Technology Services. He is a highly trained and experienced corrosion engineer with eighteen years of experience in the chemical process industry. Till the end of June 2014 Knuth headed a group of approximately twenty engineers and NDE technicians that provide materials and corrosion and NDE expertise and services to the Bayer group and external companies. As of July 2014 he took over the newly developed function of global and strategic expert for mechanical integrity being in charge of assisting customers on their process of keeping their “top-in-class” MI status or to further develop in that direction. His skills are in the areas of materials and corrosion, equipment design and fabrication as well as risk-based and time-based NDE applicable both for capital investments (QAQC) and running plants.


Wim VANCAUWENBERGHE, BEMAS, Belgian Maintenance Association, Belgium

Plenary Lecturer: Aging Plants in North-West Europe: What can We learn from the Perspective of the MORE4CORE Project? (Maintenance, Overall, and REpair for COMPetitiveness of the North-West European REgion)

Wim Vancauwenberghae has been Director of BEMAS, the Belgian Maintenance Association since 2000. He holds a Masters degree in Industrial Engineering and is a Certified Maintenance & Reliability Professional by SMRP. Throughout his career, he has witnessed dozens of best practices in maintenance, reliability and asset management in various industries. He has also had the privilege to meet some of the top maintenance gurus in the world and is involved in several international projects in the field of maintenance. BEMAS is currently working on a benchmark exercise in maintenance, involving 300 production companies and asset owners in North-Western Europe. As no other Mr. Vancauwenberghae understands that a lot of companies still have huge potential for improvement by narrowing the gap between maintenance and production, engineering and top management, and by focusing on long-term production reliability. He is a true believer in the importance of maintenance and the maintenance profession. That is why some people call him Belgium’s “Maintenance Evangelist”. His mission: get the recognition for maintenance it deserves.

John WINTLE, TWI, UK

Lecture on Plant Aging and the Link to Asset Management
Panelist in the Fitness for Purpose Workshop

John Wintle is a Consultant Engineer at TWI and a leading authority on integrity management and the management of aging and life extension of high accident hazard installations, welded structures and plant components. He works closely with the oil & gas, petrochemical, and power sectors providing independent advice to regulators and operators. His published work includes best practice research reports for the HSE and the Energy Institute on topics such as risk-based inspection, maintenance management, and the management of plant ageing and life extension.

Sander ZWANIKKEN, AdviSafe Risk Management, The Netherlands

Leader of the Role of Safety Culture and Safety Leadership in Managing Aging Plants Workshop

Drs. Sander Zwanikken, MSc., is Senior Consultant and Manager of the Safety Culture and Behaviour Group at AdviSafe Risk Management in The Netherlands. He has developed, organized and conducted over 300 safety leadership workshops for different companies, varying from the energy sector to the offshore sector all over the world. Sander has over fifteen years of experience in safety consultancy, training and auditing, focusing on organisational change, safety climate, safety culture, and safety management systems. Sander studied Politics and Policy at the University in Nijmegen. From 1994 till 1997 he worked at the Environmental & Building Department of the City of Amsterdam as a Consultant in Environmental Management Systems. After that he worked from 1998 till 2002 as a Safety Health and Environmental Manager at the Waste Energy Company in Amsterdam. In 2002 he finished his Master of Science degree “Management of Safety Health and Environment”. From 2002 until 2012 he worked as a Safety Consultant and Researcher at TNO, a Dutch organization for applied science. In 2012 he started at AdviSafe and is responsible for the Safety Culture and Behavior activities at this consultancy company.
Hotel & Travel Information

Düsseldorf Marketing & Tourismus will help you find accommodation for your visit to the Managing Aging Plants Conference & Expo. They can offer you hotel reservation options in different hotels in and around Düsseldorf. Information regarding all your accommodation needs for your stay in Düsseldorf can be found by visiting their website www.duesseldorf-tourismus.de. Simply follow the links to find a list of recommended hotels and relevant booking information and where a handy city plan is also provided in order to find your way in Düsseldorf easily. Offering a variety of rates and services to suit your needs, Düsseldorf Marketing & Tourismus will work directly with you to provide you, your colleagues, and your company the best deal and will ensure your time spent with us will be comfortable and enjoyable. Furthermore Düsseldorf Marketing & Tourismus can also assist you in making arrangements for transportation, restaurant bookings, car rentals and flights.

Arrival by Plane
Düsseldorf Airport is the third largest airport in Germany, offering you ideal direct connections to 180 destinations on four continents. 75 airlines use the modern airport with its new terminal building. 600 departures and arrivals a day make the airport an important transport hub in the region. Last year Düsseldorf Airport handled more than 16 million passengers. The airport is just three kilometres from the CCD Congress Center Düsseldorf. By taxi it takes just a few minutes to reach us. The city centre and your hotel are also a convenient and quick ride from the airport.
Airpor information: Tel.: +49 (0)211 - 421 - 0

Arrival by Car
North Rhine-Westphalia possesses an extremely well developed motorway network that will get you quickly to Düsseldorf and the CCD Congress Center Düsseldorf. More than 1,200 parking spaces are available right by the CCD Congress Center Düsseldorf. Just follow the signs to Messe Düsseldorf. When you reach the immediate congress centre environs, follow the special signs CCD Stadthalle, CCD Süd or CCD Ost and the parking signs P3, P4 or P5. If necessary, the big car parks at Messe Düsseldorf can also be used.

Address:
Düsseldorf Congress
Stockumer Kirchstr. 61
40474 Düsseldorf, Germany

Input data for your GPS:
Rotterdamer Strasse / Stockumer Kirchstrasse
40474 Düsseldorf, Germany

Travelling from the north
Follow the A52 in the direction of Düsseldorf. Change to the A44 in the direction of the airport (Düsseldorf Flughafen). Leave the motorway at the Düsseldorf Stockum exit and follow the signs CCD Süd/CCD Stadthalle.

Arrival by Train
By train you will reach Düsseldorf sustainably, economically and stress-free. Centrally located in downtown Düsseldorf, the main station (Hauptbahnhof) on Konrad Adenauer Platz is one of the most modern in Europe. More than 1,000 trains a day guarantee good connections to Düsseldorf from all over Germany and abroad. The U78/U79 trams and the 722 bus will take you quickly and conveniently to the CCD Congress Center Düsseldorf. Take the U78 (from the direction of the city centre) and the U79 (from the direction of the city centre, Kaiserswerth, Wittlaer und Duisburg) to the Messe Ost/Stockumer Kirchstrasse stop. From there it is a roughly 15-minute walk, across Stockumer Kirchstrasse, to the CCD Congress Center Düsseldorf. Alternatively you can take the 722 bus to the last stop CCD Süd/Stadthalle.

Deutsche Bahn AG service numbers
Timetable information: Tel.: +49 (0) 800 15 07 090
Booking service: Tel.: +49 (0) 11861
Arrival by Public Transport
The CCD Congress Center Düsseldorf is easy and quick to reach by underground and bus. The U78/U79 underground lines and 722 bus will take you quickly and conveniently to the CCD Congress Center Düsseldorf. Take the U78 (from the direction of the city centre) and the U79 (from the direction of the city centre, Kaiserswerth, Wittlaer and Duisburg) to the Messe Ost/Stockumer Kirchstrasse stop. From there it is a roughly 15-minute walk, across Stockumer Kirchstrasse, to the CCD Congress Center Düsseldorf. Alternatively you can take the 722 bus to the last stop CCD Süd/Stadthalle.

The link-up with the Rhine-Ruhr integrated transport network (VRR) means the local public transport facilities of many other cities and local authorities and the Deutsche Bahn trains for which no supplements are charged are available to you in one tariff system.

Should you need any further information or assistance regarding any aspect of your hotel booking or travel arrangements please do not hesitate to contact Düsseldorf Marketing & Tourismus directly at:
Telephone: +49 (0)2 11 17 202 839 or
Fax +49 (0)2 11 17 202 3221 or
E-mail: info@duesseldorf-tourismus.de

Please remember that all above information is for your reference only and that we strongly recommend that you clarify all your travel arrangements with the appropriate agencies before you travel. We would like to take this opportunity to wish you a safe and pleasant journey to Düsseldorf!
# Stand Registration Form

Application Exhibitor Package

Organizer
KCI Publishing / MTI

Information:
Nicole Nagel
Tel.: +49-2821-71145-55
Fax: +49-2821-71145-69
E-Mail: n.nagel@kci-world.com

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**Invoice:**
You will receive an invoice for your stand a few days after purchase for the full amount. Cancellation is 100% of the total original cost.

In the absence of any statutory ruling to the contrary, all prices are to be understood as subject to German turnover tax at the statutory rate.

Messe Düsseldorf Congress Center
Düsseldorf, Germany
3–4 March, 2015

www.managingagingplants.com
Managing Aging Plants Conference & Expo 2015
Messe Düsseldorf Congress Center
3rd - 4th March 2015, Düsseldorf, Germany

Conference Registration Form

2 Day Registration

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1 Day Registration

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Delegate Registration (Prices are in euros excluding 19 % VAT); VAT can be reclaimed via your local tax authorities.

Payment Information

O Payment via Credit Card  O Payment via Bank Transfer
All payments must be remitted in Euro’s.
For payment via Bank Transfer: details will be provided upon receipt of completed registration form.
American Express/MasterCard/Visa amount € __________ + 19% VAT  Total € __________________________
Credit card number __________________________ Expiration date: __________________________
CardVerification Code (CVC)* __________________________
Cardholder’s Name: __________________________ Cardholder’s Signature: __________________________

In addition to the credit card number, a card verification code (CVC) is required. This is to provide more security for the customer and the mail order company. We will not be able to process credit card transactions without a verification code.

For Visa and Mastercard/Eurocard: you can find your CVC on the reverse side of your credit card, printed into the signature filed. It is a three-digit number. The full credit card number is reprinted in the signature box and at the end of the number is the verification code number.

For American Express: the verification code number is a four-digit number on the front of the card above the credit card number on either the right or the left side of your American Express credit card.

Cancellation Policy - Cancellations in writing prior to February 1st, 2015 will be subject to a Euro 50 processing fee per person. Refunds will not be granted after February 1st, 2015. Refunds will not be given for no-shows after the conference start date.

Please send this form by fax: + 49 2821 71145 69 Attn: Irina Gast
by email: i.gast@kci-world.com or post to KCI GmbH : Tiergartenstr. 64, D - 47533 Kleve, Germany

www.managingagingplants.com