Final Program:
Conference & Exposition

Thermal Spray: Fostering a sustainable world for a better life!
May 10 – 12, 2016 Shanghai / P.R. China

www.dvs-ev.de/itsc2016
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tional Thermal Spray Conference & Exposition
SPONSORING

CONFERENCE

General Information
Conference Committees and Endorsing Sponsors
Time Schedule
Technical Program of Oral Presentations

POSTER SESSION / INDUSTRIAL FORUM

General Information
Poster Presentations

ACTING EXPERTS

Presenting Authors, Poster Presenters and Session Chairs ITSC 2016

EXPOSITION

Exhibitor List
Exhibitor Company Profiles
Exhibitor Product Categories

Organization
DVS – German Welding Society
Simone Mahlstedt / Brigitte Brommer
Aachener Str. 172
40223 Düsseldorf / Germany
P +49. (0)211. 1591-302/-303
F +49. (0)211. 1591-300
tagungen@dvs-hg.de

Specialist Information
DVS – German Welding Society
Jens Jerzembeck
Aachener Str. 172
40223 Düsseldorf / Germany
P +49. (0)211. 1591-173
F +49. (0)211. 1591-200
jens.jerzembeck@dvs-hg.de

ITSC 2016 Venue
Shanghai International Convention Center & Oriental Riverside Hotel
No. 2727, Riverside Avenue Pudong
Shanghai, 200120, P.R. China
Auditorium, Yellow River Hall, Room 3C + 3D, Room 3E, Room 3G, Room 3H + 3I +3J, 3rd Floor
Mandarin Hall, Century Hall, 1st Floor
ITSC 2016

The ITSC 2016 conference is an opportunity for the global thermal spray community to meet, exchange information and conduct business. This outstanding annual event in the world of thermal spray technology presents the latest advancements in application, research and development in the field of thermal spray.

To complement the technical program, a three-day exposition featuring an Industrial Forum as well as a Poster Session will take place.

Please mark your calendar for the special ITSC 2016 events:

- **Opening of ITSC 2016 with Plenary Lectures**
  Tuesday, May 10, 2016, 09:00, Shanghai International Convention Center, Auditorium

- **Kick-off ITSC 2016 Exposition and Poster Session**
  Tuesday, May 10, 2016, 12:00, Shanghai International Convention Center, Mandarin and Century Hall, Foyers

- **Exhibitor Welcome Reception and Poster Session**
  Tuesday, May 10, 2016, 17:40, Shanghai International Convention Center, Mandarin and Century Hall, Foyers

- **ITSC 2016 Networking Event**
  Wednesday, May 11, 2016, 18:30, Huangpu Boat Trip

- **Industrial Tour – SICCAS – Shanghai Institute of Ceramics, Chinese Academy of Sciences**
  Friday, May 13, 2016, 07:30

- **Awards 2016**

  **Award Ceremony**
  - TSS Hall of Fame
  - ITSC Best Paper Awards
  - Oerlikon Metco Young Professionals Award
  Tuesday, May 10, 2016, 17:00, Shanghai International Convention Center, Auditorium
  All awards will be presented during this ceremony.

  **Presentation of JTST Best Paper Award and TSS President’s Award**
  Wednesday, May 11, 2016, 18:30
  One highlight will be the presentation of the JTST Award and the TSS President's Award.
Great things come in small packages!

Our new UniCoatPro thermal spray system platform gives you the advanced features found in high end system platforms in a small footprint and a moderate price tag. UniCoatPro has an easy-to-use touchscreen interface with attractive functionality such as sophisticated Trending and Reporting, Multi-Level Alarms and Diagnostics, and Remote Maintenance. It's bound to become a favorite in your spray shop.

Run traditional plasma spray guns or save more time and costs using our cascading arc SimplexPro spray gun with UniCoatPro Plasma. Run our liquid-fuel HVOF WokaJet or high efficiency WokaStar gun with UniCoatPro LF.

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To discuss your surface challenges, visit Booth 141
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K. Yang, Shanghai Institute of Ceramics, Chinese Academy of Sciences (CN)
## TIME SCHEDULE ITSC 2016 CONFERENCE AND EXPOSITION (Session Overview)

12:00 – 19:00 ITSC 2016 Exposition, Shanghai International Convention Center, Mandarin and Century Hall

### Tuesday, May 10, 2016

<table>
<thead>
<tr>
<th>Time</th>
<th>Auditorium</th>
<th>Room 3E</th>
<th>Room 3C + 3D</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Opening:</td>
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</tr>
<tr>
<td></td>
<td>■ Welcome</td>
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<td></td>
<td>■ Plenary Lectures</td>
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<tr>
<td>10:30</td>
<td>Coffee Break, Shanghai International Convention Center, Foyers</td>
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<tr>
<td>10:50</td>
<td>Cold Gas Spraying I Novel Industrial Application</td>
<td>Process, Diagnostics, Sensors &amp; Controls</td>
<td>Ceramic Coatings I</td>
</tr>
<tr>
<td>12:30</td>
<td>Lunch Break, Shanghai International Convention Center, Mandarin and Century Hall</td>
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<tr>
<td>12:40</td>
<td>Poster Session, Shanghai International Convention Center, Century Hall, Foyers</td>
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</tr>
<tr>
<td>14:00</td>
<td>Suspension Spraying I Wind &amp; Offshore</td>
<td>New Processes I</td>
<td>Ceramic Coatings II</td>
</tr>
<tr>
<td>15:20</td>
<td>Coffee Break, Shanghai International Convention Center, Mandarin and Century Hall</td>
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<tr>
<td>15:40</td>
<td>Session “Young Professionals”</td>
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<tr>
<td>17:00</td>
<td>Award Ceremony: TSS Hall of Fame, ITSC Best Paper Awards and Oerlikon Metco Young Professionals Award</td>
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<tr>
<td>17:40</td>
<td>End of ITSC 2016 Conference Program</td>
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<tr>
<td>17:40</td>
<td>Exhibitor Welcome Reception, Shanghai International Convention Center, Mandarin and Century Hall</td>
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<td></td>
<td>Poster Session, Shanghai International Convention Center, Century Hall, Foyers</td>
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### Wednesday, May 11, 2016

<table>
<thead>
<tr>
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<th>Auditorium</th>
<th>Room 3E</th>
<th>Room 3G</th>
<th>Room 3H + 3I + 3J</th>
<th>Room 3C + 3D</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Automotive Industry</td>
<td>Cold Gas Spraying II</td>
<td>Wear Protection</td>
<td>Power Generation I</td>
<td>Industrial Forum</td>
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<tr>
<td>10:40</td>
<td>Coffee Break, Shanghai International Convention Center, Mandarin and Century Hall</td>
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<tr>
<td>11:00</td>
<td>Aviation Industry I</td>
<td>Cold Gas Spraying III</td>
<td>Modeling &amp; Simulation I</td>
<td>Power Generation – Fuel Cell I</td>
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### Wednesday, May 11, 2016

<table>
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<th>Time</th>
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<th>Room 3C + 3D</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Power Generation I</td>
<td>Characterization &amp; Testing Methods</td>
<td>HVOF- / HVAF-Spraying</td>
<td>New Processes II</td>
</tr>
<tr>
<td>10:40</td>
<td>Coffee Break, Shanghai International Convention Center, Mandarin and Century Hall</td>
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<tr>
<td>11:00</td>
<td>Power Generation II</td>
<td>Corrosion Protection</td>
<td>Equipment / Consumables &amp; Powders, Wires, Suspensions</td>
<td>Iron-based Coatings</td>
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<tr>
<td>12:40</td>
<td>Lunch Break, Shanghai International Convention Center, Mandarin and Century Hall</td>
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<tr>
<td>13:40</td>
<td>Power Generation III</td>
<td>Medical Industry</td>
<td>Plasma Spraying</td>
<td>Amorphous Coatings</td>
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### Thursday, May 12, 2016

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<tbody>
<tr>
<td>09:00</td>
<td>Power Generation II</td>
<td>Characterization &amp; Testing Methods</td>
<td>HVOF- / HVAF-Spraying</td>
<td>New Processes II</td>
</tr>
<tr>
<td>10:40</td>
<td>Coffee Break, Shanghai International Convention Center, Mandarin and Century Hall</td>
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<tr>
<td>11:00</td>
<td>Power Generation III</td>
<td>Corrosion Protection</td>
<td>Equipment / Consumables &amp; Powders, Wires, Suspensions</td>
<td>Iron-based Coatings</td>
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<tr>
<td>12:40</td>
<td>Lunch Break, Shanghai International Convention Center, Mandarin and Century Hall</td>
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<tr>
<td>13:40</td>
<td>Power Generation IV</td>
<td>Medical Industry</td>
<td>Plasma Spraying</td>
<td>Amorphous Coatings</td>
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### Friday, May 13, 2016

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<tbody>
<tr>
<td>07:30</td>
<td>Industrial Tour</td>
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</table>

SICCAS – Shanghai Institute of Ceramics, Chinese Academy of Sciences
**TECHNICAL PROGRAM OF ORAL PRESENTATIONS**

<table>
<thead>
<tr>
<th>Time</th>
<th>Auditorium</th>
<th>Yellow River Hall</th>
<th>Room 3E</th>
<th>Room 3C + 3D</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Opening</td>
<td>Welcome</td>
<td>Plenary Lectures:</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Advances in plasma sprayed ceramic coatings at Shanghai Institute of Ceramics, Chinese Academy of Sciences</td>
<td>S. Tao</td>
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<td></td>
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<td>The development of the China auto market and its significance for the BMW Group</td>
<td>A. Gollwitzer</td>
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<tr>
<td>10:30</td>
<td>Coffee Break</td>
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<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Topic</th>
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<tbody>
<tr>
<td>10:50</td>
<td>Cold Gas Spraying I</td>
<td>Analytical evaluation of temperature distribution within a substrate under an impinging compressed hot air jet</td>
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<td>Session Chairs:</td>
<td>J. Villafuerte, W. Krömmer</td>
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<tr>
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<td>Anti-icing behavior of thermally sprayed polymer coatings</td>
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<td>H. Koivuluoto*, C. Stenroos, M. Kylmälähti, P. Vuoristo</td>
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<tr>
<td>11:10</td>
<td>Microstructural characteristics of cold sprayed titanium</td>
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<td></td>
<td>P. King*, M. Glenn, S. Gulizia</td>
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<td></td>
<td>Fabrication of three-dimensional electrodes by atmospheric plasma spray and high velocity oxy-fuel processes for alkaline water electrolysis</td>
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<td>M. Aghasibeig*, C. Moreau, R. Wuthrich, A. Dolutabadi</td>
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<tr>
<td>11:30</td>
<td>Substrate effect in cold spraying</td>
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<td>J. Gürjul*, O. Sabouni, S. Malcus, J. Gutleber</td>
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<tr>
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<td>Gas and particle investigations during wire arc spraying process</td>
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<td>Particle in-flight velocity and dispersion measurements at increased particle feed rates in cold spray</td>
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<td>M. Meyer*, S. Yin, R. Lupoi</td>
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<td>Improved reliability and specific design of plasma spray processes</td>
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<td>G. Mauer*, K. Rauwald, R. Vaßen</td>
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<tr>
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<td>Synthesis and thermophysical properties of Gd$_2$Zr$_2$O$_7$/SrZrO$_3$ composite as a thermal barrier coating material</td>
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<td>W. Ma*, L. Cai, H. Dong, Y. Bai, Y. Yin, X. Li</td>
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<td>Heat-shock properties on Y203 films synthesized with metal ethylenediamine tetraacetic acid complex</td>
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<td>Super-hydrophobic surface prepared by lanthanide oxide ceramics deposition through PS-PVD process</td>
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<tr>
<td></td>
<td></td>
<td>C. Li, J. Li*, Q. Chen, S. Zhang, X. Luo, G. Yang, C. Li</td>
</tr>
<tr>
<td>Time</td>
<td>Auditorium</td>
<td>Yellow River Hall</td>
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<tr>
<td>11:50</td>
<td>Cold spray of agglomerated submicronic hydroxyapatite powders for biomedical applications</td>
<td>Superior thermal spray coatings replacing former solutions in paper machinery</td>
</tr>
<tr>
<td>12:10</td>
<td>High deposition efficacy additive manufacturing of titanium using nitrogen cold spray</td>
<td>Investigation of influencing factors on the transplantation of wire arc sprayed Zn coatings for the metallization of plastic parts</td>
</tr>
<tr>
<td>12:30</td>
<td>Lunch Break, Shanghai International Convention Center, Mandarin and Century Hall</td>
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<tr>
<td>12:30</td>
<td>Suspension Spraying I</td>
<td>Wind &amp; Offshore</td>
</tr>
<tr>
<td>14:00</td>
<td>Characterization of the deposition formation dynamics of suspension plasma spray coatings using in-situ coating property measurements</td>
<td>Long-term marine exposure test of HVOF sprayed 316L stainless steel and hastelloy C-276 coatings</td>
</tr>
<tr>
<td>14:20</td>
<td>Comparison of SFS, SPS and HVSFS for the production of photocatalytic titania coatings</td>
<td>Thermal sprayed electrical insulation for highly demanding bearing applications</td>
</tr>
<tr>
<td>14:40</td>
<td>Influence of particle size and spray parameters on formation of dense yttria coatings by suspension plasma spraying</td>
<td>Improved corrosion resistance and electrical insulation behavior of plasma sprayed alumina coatings treated by inorganic sealant</td>
</tr>
<tr>
<td>15:00</td>
<td>Suspension plasma spray - how suspension properties and spray parameters influence coating possibilities</td>
<td>Corrosion performance of damaged thermally sprayed aluminium in simulated deep sea environment</td>
</tr>
<tr>
<td></td>
<td>N. Curry*</td>
<td>S. Paul*</td>
</tr>
<tr>
<td>15:20</td>
<td>Coffee Break</td>
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</tbody>
</table>
**“Young Professionals”**
Session Chairs: K. Bobzin, E. Turunen

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**Time**

**Auditorium**

| Start | Formation mechanism analysis of solution precursor plasma sprayed hydroxyapatite coatings
| K. Bobzin*, E. Turunen |
| 15:40 | Warm spraying of high strength Ni-Al-Bronze for cavitation protection
| | In-flight particle diagnostics and control for the production of thermally sprayed babbitt coatings
| A. Nascimento*, F. Ben Ettouil, C. Moreau, S. Savole, R. Schulz |
| | TGO formation and failure mode of TBC systems comprising PVD-AlOx interlayers
| | Three dimensional reconstruction of plasma sprayed Ni-20Cr on alumina
| A. Wang*, A. Tran, M. Hyland, P. Munroe |
| | Pulsed current investigations and effects of the wire arc spraying process
| | Microstructure and thermal conductivity of Fe-based amorphous coatings prepared by HVOF thermal spraying
| L. Wang*, Z. Zhou, H. Yao, Y. Wang, X. Wu, D. He |
| | Characterisation of thermally sprayed ZnAl15 corrosion protection coatings for offshore-wind-turbines
| M. Knoch*, K. Bobzin, M. Öte, T. Linke |
| | Spray parameter effect on HVAF sprayed chromium carbide based hardmetal coatings
| V. Matkainen*, K. Khanlari, A. Mitani, H. Koivuluoto, P. Vuorio |

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**Time**

**Auditorium**

| 17:00 | Award Ceremony:
| ■ TSS Hall of Fame
| ■ ITSC Best Paper Awards
| ■ Oerlikon Metco Young Professionals Award |
| 17:40 | End of ITSC 2016 Conference Program |
| 17:40 | Exhibitor Welcome Reception, Shanghai International Convention Center, Mandarin and Century Hall
| Poster Session, Shanghai International Convention Center, Century Hall |

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Each presentation 5 minutes!
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<tr>
<td>10:00</td>
<td>Integration of a thermal spray process into the GROB production line for passenger car aluminium engine blocks of combustion engines into mass production&lt;br&gt;B. Gand*, A. Woerfel, H. Saule, C. Moerz</td>
<td>The reactivity enhancement depending on the microstructure evolution in kinetic spraying and arrested reactive milling of Al-Ni particles&lt;br&gt;S. Lee*, J. Kim, C. Lee</td>
<td>Laser treatment of HVOF thermal sprayed nano-structured WC-12Co mixed with inconel-625 coatings for wear applications&lt;br&gt;J. Stokes*, N. Al Harbi, K. Benyounis, L. Looney</td>
<td>Thermal fatigue failure of thermal barrier coatings with a high-Cr MCrAlY bond coat&lt;br&gt;K. Yuan*, Y. Yu, K. Jonnalagadda, R. Lin Peng, X. Li, J. Shen, X. Ji</td>
<td>Efficiency improvement in thermal spray processes&lt;br&gt;A. Wank*, K. Nassenstein</td>
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10:40 Coffee Break
Shanghai International Convention Center, Mandarin and Century Hall
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<th>Time</th>
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| 11:00 | Cold Gas Spraying III  
Session Chairs: A. Dolatabadi, P. Richter  
Study of the properties of cold sprayed In718 deposits  
H. Renzhong, H. Fukunuma, R. Huang*  
Implementing the equation of state to account for the density variation at the inlet boundaries for high velocity oxy fuel process  
M. Aldosari*, K. Benyounis, J. Stokes  |
| 11:20 | Advances in the restoration of the Al-clad layer on aircraft skin by cold spray  
J. Villafuerte*, B. Jodoin, M. Yandouzi  
Influences on coating quality in cold spraying  
F. Gärtner*, M. Villa-Vidalier, S. Krebs, H. Gutzmann, H. Assadi, T. Klassen  |
| 11:40 | New investigation on the high temperature capability limits of APS YSZ TBCs at ~1500°C: Preliminary thermal gradient laser-rig testing results  
R. Lima*, B. Marple  
Comparison of diamond-reinforced composite coating with different feedstock by cold spraying  
S. Yin*, R. Lupoi  |
| 12:00 | Thermal and mechanical properties of novel lanthanum zirconate based thermal barrier coatings  
Effect of content and type of reinforcing particles on the hardness and wear rate of low-pressure cold sprayed TiC and B,C-based metal matrix composite coatings  
R. Lee*, H. Ashrafzadeh, G. Fisher, A. McDonald  |
| 12:20 | Practical surface solutions for thermal barrier turbine coating applications  
M. Gindrat*, M. Dorfman, C. Dambra, S. Wilson, R. Rocchio-Heller, O. Sabouni  
Influence of phosphorus and tin content on various characteristics of cold sprayed copper coatings  
| 12:40 | Lunch Break, Shanghai International Convention Center, Mandarin and Century Hall  
Poster Session, Shanghai International Convention Center, Century Hall  |
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<td>Coffee Break</td>
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Wednesday, May 11, 2016

ITSC 2016 Final Program | 15
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<td>End of ITSC 2016 Conference Program</td>
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<td>18:30</td>
<td>Networking Event, Huangpu Boat Trip – Presentation of JTST Best Papers Award and TSS President’s Award</td>
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<td>09:00</td>
<td>Power Generation II</td>
<td>Characterization &amp; Testing Methods</td>
<td>HVOF- / HVAF-Spraying</td>
<td>New Processes II</td>
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<td></td>
<td>Microstructure of the coatings deposited by low pressure plasma spray with nano-agglomerated YSZ feedstock</td>
<td>Flexure strength of metal mesh reinforced ceramic matrix composite fabricated using plasma spray method</td>
<td>Microstructure and performance of WC-10Co-4Cr coating with ultrafine / nano-crystalline structures</td>
<td>Characterization of YSZ Coatings Deposited by Conventional DC and CO2/CH4 Plasma Torches</td>
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<td>09:20</td>
<td>An investigation on the optimization, reliability and repeatability assessment of plasma spray coatings deposited using twin opposing injectors</td>
<td>Stress analysis and failure mechanisms of plasma sprayed thermal barrier coatings through spectroscopy technique</td>
<td>Performance of HVOF sprayed Ni-20Cr+1%Zr Coating in Na2SO4-60%V2O5 environment at 900°C</td>
<td>High-velocity spray deposition of WC cermets by an air-oxygen controlled combustion process</td>
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<td>09:40</td>
<td>Preparation and properties of Cr3C2-25NiCr thermal spraying powders and coatings with nano-sized, micro-sized and bimodal structure</td>
<td>The evaluation of mechanical properties of suspension plasma sprayed zirconia coatings having various microstructures</td>
<td>Effects of powder structures and HVOF processes on erosion wear performance of WC-10Co4Cr coatings</td>
<td>An in-situ cooling solution for thermal spray coating process</td>
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<td>10:00</td>
<td>Effect of neodymia, samaria and yttria co-doping on the phase stability, thermal conductivity and long-term performance of the zirconia-based thermal barrier coatings</td>
<td>Influence of powder characteristics on the microstructure and bond strength of cold sprayed aluminum coating</td>
<td>Process simulation in HVOF qualification and optimization</td>
<td>The new design of the D-gun to increase performance and optimization of the coating process</td>
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<td>10:20</td>
<td>Thermal cycling behavior of quasi-columnar YSZ coatings deposited by PS-PVD</td>
<td>Residual stresses measurement in plasma sprayed TBCs with cold sprayed bond coats by photoluminescence piezospectroscopy</td>
<td>Modeling of the injection of suspension sprays into two-stage HVOF process</td>
<td>Performance and economic characteristics of multi-chamber detonation sprayer using in the thermal spray technology</td>
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| 13:40 | Power Generation IV  
Session Chairs: F. Bozza, X. Zhang  
TGO formation and failure mode of TBC systems comprising PVD-AlO\textsubscript{x} inter-layers  
Session Chairs: V. Guipont, M. Parco  
Refining nano-topographical features on bone implant surfaces by altering surface chemical compositions  
G. Wang*, X. Zhao, H. Zreiqt | Plasma Spraying  
Session Chairs: S. Dosta, T. Suominen  
Nature inspired damage tolerant thermal spray materials and coatings  
G. Smith*, M. Resnick, G. Dwivedi, S. Sampath | Amorphous Coatings  
Session Chairs: L. Hagen, X. Song  
Simulated deep-sea corrosion behaviors of Fe-based amorphous coatings  
C. Zhang*, Z. Zhang, W. Wang, L. Liu |
| 14:00 | High-performance thermal barrier coatings deposited by high-efficiency supersonic atmospheric plasma spraying  
Y. Bai*, Y. Wang, L. Zhao, K. Liu, J. Tang, Y. Kang | Ce\textsubscript{2}O\textsubscript{3} incorporated calcium silicate coatings protect MC3T3-E1 osteoblastic cells from H\textsubscript{2}O\textsubscript{2}-induced oxidative stress  
K. Li*, L. Kai, X. Youtao, H. Liping, Z. Xuebin | Comparison of ZrB\textsubscript{2}-Mo-Si\textsubscript{2} composite coatings fabricated by atmospheric and vacuum plasma spray processes  
K. Li, N. Yaran*, W. Zhong, L. Hong, Z. Xuebin, S. Jinliang, D. Chuaxian | Preparation of thermal spray coatings of Ni-based amorphous alloy with a high-corrosion resistance and ductility  
K. Amiya*, T. Morimoto, R. Kurahashi |
| 14:20 | Influence of diode laser glazing on the microstructure and properties of the APS thermal barrier coatings  
N. Zaitsev*, I. Mazilin, L. Baldass, Y. Novinski, E. Marchukov, V. Ovchinikov | Synergy effects of Sr and Si ions from Sr-doped calcium silicate coatings on stimulation of osteogenesis  
K. Li, H. Dandan*, L. Kai, X. Youtao, H. Liping, Z. Xuebin | Plasma sprayed composite coatings for severe conditions in nuclear power plants  
A. Werry, A. Vardele, A. Derojren*, S. Valette, C. Chazelas, E. Meillot | Improvement of bonding strength and impact resistance of Fe-based amorphous coatings by structure modifications  
L. Liu*, C. Zhang |
| 14:40 | Understanding of the mechanism of excellent thermal stability of single-phase b-(Ni,Pt) Al\textsubscript{2}O\textsubscript{3} coated during cyclic oxidation by experimental and theoretical study  
H. Chen*, L. Ye, G. Yang, Y. Gao, H. Luo, B. Liu | Synergistic effect of macro/nano-topography on cytoskeletal distribution leading to improved cell differentiation through ROCK-related signaling pathway  
K. Li, L. Pan*, Y. Xie, X. Zheng, T. Tang | Microstructure and mechanical property of Al\textsubscript{2}O\textsubscript{3}/YAG wear-resistant composite coating deposited by atmospheric plasma spraying  
K. Yang*, J. Rong, C. Liu, S. Tao, C. Ding | Wear and corrosion resistant Al-based metallic glass coatings by cold gas spray  
S. Dosta, J. Henao, A. Concustell, I. Garcia Cano*, N. Cinca, J. Guilemany, T. Suominen |
| 15:00 | Comparative investigation of mechanical properties of thermal barrier coatings made by atmospheric plasma spraying and suspension plasma spraying  
K. Li, X. Zheng* | Evaporation enhancement at very low pressure by modifying the nozzle for conventional 80 kW plasma spray system  
C. Li, Q. Chen*, C. Li, G. Yang | Enhancement of wear, impact and corrosion resistance of Fe based amorphous coatings by the addition of alumina particles  
M. Yasir*, L. Liu, Z. Cheng, W. Wang, P. Xu |
| 15:20 | End of ITSC 2016 Conference Program | | | |
POSTER SESSION / INDUSTRIAL FORUM

**Poster Session**
During the ITSC 2016 event a Poster Session will be held.

**Poster Session during the Exhibitor Welcome Reception**
Tuesday, May 10, 2016, 17:40, Shanghai International Convention Center, Century Hall, Foyers

The poster presenters will be available for discussion in the Century Hall scheduled as follows:

- **Tuesday, May 10, 2016, 12:30 – 14:00** (17:40 – 19:00 during the Exhibitor Welcome Reception)
- **Wednesday, May 11, 2016, 12:40 – 13:40**
- **Thursday, May 12, 2016, 12:40 – 13:40**

In addition further contacts with the authors can be arranged.

**Industrial Forum**
The Industrial Forum will take part during ITSC 2016 in the Shanghai International Convention Center, Room 3C + 3D. Invited companies will present on industry related topics and products during conference and exposition hours. All presentations are given in English and are limited to 20 minutes including question & answer (Q&A). Beside the ITSC conference registrants, also all Expo only attendees are invited to visit the Industrial Forum.

**Forum Hours:**
Wednesday, May 11, 2016, 09:00 – 10:40, 13:40 – 15:20 (see page 13, 15)
Applications – Automotive Industry

1. High temperature corrosion of selected thermally sprayed coatings deposited by HVOF technology
   Z. Cesanek*, J. Schubert, V. Matikainen, H. Koivuluoto, P. Vuoristo

2. Influence of heat treatment methods on mechanical and tribological properties of thermally sprayed NiCrBSi based coating
   J. Schubert, Z. Cesanek*, S. Houdkova

Applications – Aviation Industry

3. Influence of multiple guide vane geometry on characteristics of TBCs deposited by PS-PVD method
   J. Mao*, L. Min, C. Deng, C. Deng, Z. Deng, K. Zhou

4. Microstructure and ablation properties of mullite/ZrB2-SiC coating for carbon/carbon composite by atmospheric plasma spraying
   W. Han*, M. Liu, D. Zeng, C. Deng

5. Plasma jet characterization of PS-PVD with different diagnostic methods
   Z. Deng*, M. Liu, J. Mao

Applications – General Plant Engineering

6. Effect of acid corrosion on the luminescence intensity of plasma sprayed YAG:Ce3+ coatings
   W. Wang*, P. Zeng, H. Wang, J. Yu, L. Wu

7. Sulfidation behavior of plasma sprayed Al-Mo coatings in high temperature
   W. Wang*, L. Wu, J. Yu, J. Huang

8. Microstructure and bonding strength of detonation sprayed WC10Co4Cr coatings
   Y. Gao*, Y. Hou

Applications – Medical Industry

9. Corrosion testing of hydroxyapatite and hydroxyapatite silicon oxide coated titanium
   G. Singh*, H. Singh, B. Singh

10. Fabrication and characterization of graphene oxide/fluorohydroxyapatite composite materials for biomedical applications
    Y. Ba*, J. Gao, Y. Bai, W. Ma

11. Preparation and characteristics of patterned titanium coating deposited by plasma spraying
    K. Li, X. Youtao*, S. Yunqi, Z. Xuebin

12. Plasma sprayed coatings for bone replacement with anti-microbial properties

13. In vitro study of the bioactivity and biocompatibility of titanium and titanium/bioglass coatings
    X. Huang*, S. Bsat, B. De Snoo

Applications – Metals Processing

14. Influence of HA microstructure on layer build-up coatings by cold spray
    S. Dosta*, A. Martin, N. Cinca, A. Concustell, I. Cano, J. Gulemany

Applications – Power Generation - Fuel Cells & Solar

17. Liquid plasma sprayed La0.4S0.6Co0.2Fe0.8O3/Ce0.8Gd0.2O2 composite cathodes for intermediate-temperature solid oxide fuel cells
    C. Li*, S. Zhang, C. Li, G. Yang

Applications – Power Generation - Industrial Gas Turbines

18. Hot corrosion behaviors of high-velocity arc sprayed FeCrAlMoM (M = Re, Hf) coatings under a simulated Na2SO4+K2SO4 mixed film at 973K
    W. Guo*, Y. Wu, J. Zhang

19. Characterization of a plasma sprayed multilayered thermal barrier coating of different characteristic pores
    C. Li*, T. Liu, G. Yang, C. Li
Applications – Power Generation - Steam

20. Study of high velocity arc sprayed heat resistant coatings from FeCrAlBY core wire
S. Nevezhin*, D. Fantozzi, I. Malygina, Y. Korobov, A. Milanti, H. Koivuluoto, P. Vuoristo, A. Makarov, M. Filippov

21. Microstructure and thermal properties of YSZ coating prepared by laminar-flow plasma spraying (LFPS)
C. Li*, J. Gao, L. Li, Y. Wang, S. Zhang, X. Luo, G. Yang, C. Li

Equipment / Consumables – Industrial Automation & Robotics

22. Porous nanostructured hydroxyapatite coatings deposited by suspension plasma spray
C. Zhang*, Y. Zhang, J. Wang

Equipment / Consumables – Powders, Wires, Suspensions

23. Characterization and properties of cermet coatings by a new multi-chamber detonation sprayer
J. Jia, M. Kovaleva, Y. Tyurin, J. Jia, N. Vasilik, O. Kolisnichenko, M. Prozorova, M. Arseenko*, V. Sirota

Equipment / Consumables – Process Diagnostics, Sensors & Controls

24. Failure behavior of Plasma sprayed yttria stabilized zirconia thermal barrier coatings under three point bending test via acoustic emission technique

Properties – Ceramics Coatings

25. Influence of laser glazing on the characterization of the plasma-sprayed YSZ coatings
Y. Wang*, J. Liu, H. Liao, T. Poirier, M. Planche

26. Microstructure evolution and impedance spectroscopy characterization of thermal barrier coating exposed to gas thermal-shock environment
W. Chen*, M. Liu, J. Zhang

27. Dense YSZ coatings fabricated by plasma spray-physical vapor deposition

28. Influence of SiO₂ content on high-temperature aging microstructure of YSZ thermal barrier coating
X. Ji*, Y. Yu, H. Huang, W. Hou

29. Tribological behavior of plasma sprayed Al₂O₃-Y₂O₃ composite coatings
J. Rong*, K. Yang, H. Zhao, C. Liu, Y. Zhuang, S. Tao

30. Tubular asymmetric La₈₋₃₆Srₓ₋₀₃₂₀₋ₓCoₓ₋₀₂₋ₓFeₓ₋₀₂₋ₓO₇ oxygen transport membranes prepared by low pressure plasma spraying and supersonic air-gas plasma spraying
S. Niu*, K. Zhou, L. Xu, C. Deng, M. Liu, J. Mao

31. Sintering and phase transformation behavior of high-purity nano-crystallized thermal barrier coatings at very high temperatures
K. Yuan*, Y. Yu, J. Shen, X. Ji

32. Microstructural, interface characterization and modeling of thermal barrier coatings deposited by plasma spraying
Y. Fizi*, Y. Mebdoua, H. Lahmar, R. Lakhdari

33. Investigation into the mechanism of the (Ti, Al, Hf, Ta) N elemental diffusion barrier films prepared by multi-arc ion plating method of thermal barrier coatings
Y. Han*, F. Ye, H. Chen, G. Yang, B. Liu, Y. Gao

34. Influence of spray distance on the mechanical properties of plasma sprayed La₂Zr₂O₇ and YSZ coatings
G. Li*, B. Cheng, G. Yang, C. Li, C. Li

35. Synthesis of Y₂O₃ films with high thermal-shock resistance from a metalEDTA complex using flame-spraying apparatus

36. Study on high-temperature properties of doping rare earth oxide for modified YSZ thermal barrier coating
H. Peng*, X. Ji, F. Jia, K. Yuan, X. Ren

Properties – Corrosion Protection

37. Synthesis and processing of gadolinium zirconate powder(Gd₂Zr₂O₇)

38. Corrosion resistance of nano-structured WC-CoCr coating with Co-Cr alloy binder
X. Song, H. Wang*, X. Wang, X. Liu, T. Yang
| 39. | Influence of different content of free silicon on the oxidation resistance of SiC coatings on the C/SiC composites | F. Jia*, H. Peng, X. Ji, X. Zhang |
| 40. | Can thermally sprayed aluminum (TSA) mitigate corrosion of carbon steel in carbon capture and storage (CCS) environments? | S. Paul*, B. Syrek Gerstenkorn |
| 41. | Electrochemical impedance spectroscopy of thermally sprayed aluminum in synthetic seawater | S. Paul* |
| 42. | Concept of mimicking the lotus effect for anti-adhesive thermal spray coating applications | A. Förg, P. Masset* |
| 43. | Improved corrosion resistance of carbon steel via plasma sprayed NiCrAl coating | H. Dong*, J. Yao, Y. Zhou, X. Li |

**Properties – Metal Coatings**

| 44. | Effect of multi-pass coatings on surface structure of cold sprayed Si coatings | J. Nakamura*, H. Saito, K. Fujita, K. Sakaki |
| 45. | Study on magnetic coating of aluminum pan | X. Pang*, C. Deng, L. Xu |
| 46. | Oxidation behavior of MCrAlY bond coats deposited by HVOF | D. Yang*, Y. Gao, B. Tian |
| 47. | Study on the thermal spray process and the properties of WC-12Co and WC-10Co-4Cr coatings | W. Zhu*, J. Xu, Q. Wang, X. Tan |
| 48. | Microstructure and mechanical properties of AlCoCr-FeNiTi high-entropy alloy coatings sprayed-remelted by plasma process | L. Tian, W. Xiong*, C. Liu |
| 49. | The deposition of pure aluminium via cold spray for the corrosion protection of steel | I. Peter*, B. Aldwell, R. Lupoi, M. Rosso |


**Properties – Polymer Coatings**


**Properties – Pre- & Post-Treatment**

| 52. | Effect of the splat microstructure on the quenching stress induced debonding during plasma spraying of TiO₂ splat | C. Li*, S. Yao, L. Chen, G. Yang, C. Li |
| 53. | Non-destructive micro-structural characterization of thermal barrier coating | Q. Ren*, G. Li, X. Zhang |
| 54. | Evaluation of thermo-mechanical properties and micro-structure of thermal barrier coatings in cyclic thermal exposure | S. Myoung*, B. Yang, I. Kim, K. Park, K. Jang, C. Park |
| 55. | Microstructure and properties of FeCrBNb alloy coatings fabricated by HVOF thermal spraying | K. Chokethawai*, A. Mahawan, K. Meekhanthong, M. Tuiprae, S. Wirojanupatump |
| 56. | Control of heat resistance of thermal barrier coatings by HVOF robotic system TSPC-HVP | S. Baldaev*, L. Baldaev, V. Martyanova, A. Ahmetgareeva, V. Krivopusk, A. Gerasimov, A. Zhukov |

**Properties – Properties Characterization & Testing Methods**

59. An influence of strain-induced nucleation of martensitic transformations on tribological properties of sprayed and surfaced depositions
Y. Korobov*, V. Verkhurov, S. Nevezhin, M. Filipov, G. Tkachuk, A. Makarov, I. Zabolotskikh

Properties – Wear Protection

60. Influence of Ni content on the wear resistance of B₄C-Ni coatings sprayed by APS
J. Jia*, J. Yongchang, Z. Youcha

61. Microstructure and tribological performance of Cr₇C₃-(Ni,Cr)₃(Al,Cr) coating deposited from Cr₇C₃ in-situ synthesized alloy powder
H. Zhu*, F. Gao, J. Shen, Y. Yu, C. Li

62. Microstructure and wear performance of HVOF sprayed WC₁₀Co₄Cr coating
G. Ji, X. Chen*, G. Ji, H. Wang, X. Bai

63. Fracture toughness of hard coatings applied by flame spray process using flexicord feedstock
C. Lima*, M. Orozco, H. Fals, M. Mojena, V. Ferraresi

64. Research to the coating properties of different nickel-chromium alloy for Cr₇C₃-25%NiCr powders by high velocity oxygen fuel spray
Z. Li*, Y. Yu

Thermal Spray Processes – Arc Spraying & Laser Spraying

65. Tribological behavior of arc sprayed and compressed coatings with different carbide grain size fraction
L. Hagen*, W. Tillmann

66. The effect of the pulse frequency of the laser radiation on the deposited layers of materials and consideration of possibilities to reduce the heat-affected zones
V. Krivopusk*, L. Baldaev, A. Gerasimov, S. Baldaev

Thermal Spray Processes – Cold Gas Spraying

67. Microstructure and properties of Ti-Al deposit produced by cold spraying
H. Wang*, X. Chen, H. Yao, X. Bai, G. Ji

68. Cold spray coatings for spacecrafts low-temperature soldering application
J. Zhang*, Q. Cui, J. Bai, C. Wen, L. Li, B. Wang, G. Ma, G. He

69. Effect of nozzle material on cold spray process performance
S. Leblanc-Robert*, D. MacDonald, R. Fernández, A. Farjam, B. Jodoin

70. Influence of length of divergent and parallel section of the rectangular cross-section nozzle on behavior of particles of copper in high-pressure cold spray
K. Sakaki*, S. Arai, T. Tagami, T. Tsushima

71. Influence of accelerating gas temperature on formation of cold sprayed NiAl composite coating
X. Chen*, H. Wang, G. Ji, X. Bai

72. Improving corrosion resistance of Zn-Al15 coating deposited by an in-situ shot-peening assisted cold spray
C. Li*, Y. Wei, Y. Li, X. Luo, C. Li

73. Feature of interfacial bonding achieved by high-velocity particle impacts in cold spray
C. Li*, Y. Li, Y. Wei, X. Luo

74. Investigating the obstacle to the interfacial bonding of inconel 718 fabricated by kinetic spray process
J. Kim*, S. Lee, C. Lee

75. Effect of mixture on Ag coating by cold gas dynamic spray
J. Choi*, K. Ko, H. Lee

76. Deformation behaviors of cold sprayed Ti particles
G. Ji*, X. Chen, X. Bai, H. Wang

77. The effect of annealing on the mechanical properties of iron-stainless steel composites
S. Yue*, R. Barua, R. Mongrain, H. Aydin

Thermal Spray Processes – Flame Spraying

78. The influence of the application conditions by flame spraying on the behavior and properties of polymer coatings
M. Fedorova*, L. Baldaev, S. Baldaev, S. Mankovsky, A. Akhmetgareeva, S. Sheremetev

79. Preparation and characterization of flame sprayed Cu-coated polyethylene composite coatings
X. Suo, Z. Jia*, P. Xia, P. Jin, H. Li
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Thermal Spray Processes – HVOF / HVAF Spraying

80. Research HVOF spray coating process on NiCrAl performance
   X. Lu*, X. Lu, J. Shen, X. Ji, W. Hou

Thermal Spray Processes – Modelling & Simulation

81. Influence of segmentation crack on the stress distribution and failure behavior of thick thermal barrier coatings (TTBCs) fabricated by atmospheric plasma spraying: A numerical simulation study
   L. Wang*, J. Yang, D. Li, S. Tao

82. How to use statistical design of experiments software to optimize thermal spray processes and their coatings
   J. Stokes*, K. Benyounis

83. Melting and deformation effect of solid substrate by impinging of molten droplet in thermal spray process
   A. Khoshdeli*, M. Pasandideh-Fard

84. Nano-crystalline WC-Co agglomerate behavior during high velocity oxy fuel process: A computational approach
   M. Aldosari*, K. Benyounis, J. Stokes

85. Investigation of cold spray adhesion mechanism by EBSD and indentation study of interface microstructure and microhardness of high velocity impacted single particle
   P. Profizi*, A. Combescure, K. Ogawa, Y. Ichikawa

Thermal Spray Processes – New Processes

86. Introduction of micro resin fragments with ceramic nano-particles into plasma flame to create fine coated layers
   S. Kirihara, M. Katsuki*  

87. Nitrogen-dioxide sensing properties of solution precursor plasma sprayed zinc oxide coatings with oxygen vacancies Microstructure and photocatalytic properties of TiO_2 coatings deposited by solution precursor plasma spray
   C. Zhang, D. Li*, J. Li

88. Densification of metal oxide films synthesized from a metal complex by flame apparatus

Thermal Spray Processes – Plasma Spraying

89. 7YSZ coating prepared by PS-PVD based on heterogeneous nucleation

90. Microstructural characterization of plasma sprayed nano-structured YSZ coating from spray dried agglomerates of no heat treatment
   Y. Zhao*, Y. Gao

91. High temperature performance and structure spatial distribution model of yttria-stabilized zirconia coatings by plasma spray physical vapor deposition
   B. Zhang*, H. Guo, L. Gao, L. Wei, S. Gong, H. Xu

92. Spectroscopic and Electrical diagnostic of the plasma jets characteristic of a new plasma torch for LPPS or VLPPS
   C. Sun*, Y. Gao, D. Yang, Y. Fu

93. Effect of TiO_2 and TiB_2 Compounds on the Microstructure and Infrared Emissivity of Spinel Ni-Cr Oxide Coatings Prepared by ASP
   J. Zou*, W. Ye, S. Dong, Z. Nie, X. Cheng

94. Preparation and characterization of La_{0.9}Ca_{0.1}Cr_{0.9}Mg_{0.1}O_3 high emissivity coatings deposited by APS
   L. Yanbo*, W. Quansheng, C. Yunpeng, J. Zijian, W. Hao

95. Study on the influence factors of YSZ coating prepared by PS-PVD
   X. Ji*, W. Hou, X. Lu, H. Peng, Y. Yu

96. Vacuum plasma spray of yttria-stabilized zirconia coatings
   P. Xu, L. Pershin, T. Coyle, J. Mostaghimi*

97. Columnar-structured yttria stabilized zirconia coatings by plasma spray physical vapor deposition(PS-PVD) with nanostructured powder
   L. Ni*, Z. Yang, K. Ma, B. Wen, J. Yang, C. Wu

98. Effect of oxidation on the bonding formation of plasma-sprayed stainless steel splats sprayed onto stainless steel substrate
   C. Li*, J. Wang, G. Yang, C. Li

99. Understanding element redistribution of molten Mo-shell/Cu-core structured powder particles during in-flight in plasma spraying
   C. Li, J. Tian*, X. Luo, G. Yang, C. Li
100. Characteristic of NiCoCrAlYTa-10%Al₂O₃ coating fabricated by supersonic atmospheric plasma spraying  

101. Inter-splat lamellar pores resulting from delamination due to weak interface adhesion  
G. Li, L. Chen*, S. Yao, G. Yang, C. Li, C. Li

102. Atmospheric plasma spray manufacturing of TiO₂-x metal oxide gas sensors onto ceramic substrates for high temperature applications  
S. Dosta*, M. Robotti, O. Monereo, I. Cano, A. Cirera, J. Gülemany

103. A study of in-flight particle size in atmospheric plasma spraying  
L. Tian*, W. Xiong, C. Liu

104. Spraying of aluminum nitride-alumina-yttria mixtures in nitrogen plasma  
M. Shahien*, M. Yamada, M. Fukumoto

105. Particle diagnostics and coating properties in reactive plasma spray process  
M. Shahien*, M. Yamada, M. Fukumoto

Thermal Spray Processes – Suspension Spraying

106. Effect of deposition process of bondcoats in suspension plasma sprayed thermal barrier coatings on lifetime  
M. Gupta*, N. Markocsan, X. Li, L. Östergren, M. Dorfman

Young Professionals

107. Modification in powder feeder for nano-powder for thermal spray thin coatings  
R. Upadhyaya*, S. Shrivastava, A. Modi, S. Modi

108. The behavior of TBC system with Al₂O₃ Sol-Gel intermediate layer under thermal cycling  
H. Abdeldaim*, N. El Mahallawy
## Presenting Authors, Poster Presenters and Session Chairs ITSC 2016

**A**  
Abdelaim, H.  
Abdulgader, M.  
Aghasibeig, M.  
Akbarnozari, A.  
Akhmetgareeva, A.  
Aldosari, M.  
Ali, I.  
Aniya, K.  
Arseenko, M.  
Assadi, H.  
Atzberger, A.  
Bachmann, A.  
Bagcivan, N.  
Bai, Y.  
Bai, Y.  
Bala, N.  
Baldaev, S.  
Bamola, R.  
Bao, T.  
Barillas, L.  
Bengtsson, S.  
Bernard, B.  
Billieres, D.  
Bobzin, K.  
Boecking, R.  
Bozzi, G.  
Bolot, R.  
Bortolussi, V.  
Bozza, F.  

**B**  
Bachmann, A.  
Bagcivan, N.  
Bai, Y.  
Bai, Y.  
Bala, N.  
Baldaev, S.  
Bamola, R.  
Bao, T.  
Barillas, L.  
Bengtsson, S.  
Bernard, B.  
Billieres, D.  
Bobzin, K.  
Boecking, R.  
Bozzi, G.  
Bolot, R.  
Bortolussi, V.  
Bozza, F.  

**C**  
Candidato, R.  
Cesnak, Z.  
Chen, C.  
Che, H.  
Chen, H.  
Chen, L.  
Chen, Q.  
Chen, W.  
Chen, X.  
Cheng, X.  
Choi, J.  
Chokethawai, K.  
Coddet, C.  
Coyle, T.  
Curry, N.  

**D**  
Dalir, E.  
Dandan, H.  
Deng, C.  
Deng, Z.  
Denoirjean, A.  
Dizdar, S.  
Dolatabadi, A.  
Dong, H.  
Dorfman, M.  
Dosta, S.  

**E**  
Fan, Z.  
Farrokhpanah, A.  
Fedorova, M.  
Fernandez, R.  
Fizi, Y.  
Fujimori, K.  
Fukumoto, M.  

**F**  
Fanz, Z.  
Farrokhpanah, A.  
Fedorova, M.  
Fernandez, R.  
Fizi, Y.  
Fujimori, K.  
Fukumoto, M.  

**Presenting Authors**  
- Abdeldaim, H.  
- Abdulgader, M.  
- Aghasibeig, M.  
- Akbarnozari, A.  
- Akhmetgareeva, A.  
- Aldosari, M.  
- Ali, I.  
- Aniya, K.  
- Arseenko, M.  
- Assadi, H.  
- Atzberger, A.  
- Bachmann, A.  
- Bagcivan, N.  
- Bai, Y.  
- Bai, Y.  
- Bala, N.  
- Baldaev, S.  
- Bamola, R.  
- Bao, T.  
- Barillas, L.  
- Bengtsson, S.  
- Bernard, B.  
- Billieres, D.  
- Bobzin, K.  
- Boecking, R.  
- Bozzi, G.  
- Bolot, R.  
- Bortolussi, V.  
- Bozza, F.  

**Posters Presenters**  
- Candidato, R.  
- Cesnak, Z.  
- Chen, C.  
- Che, H.  
- Chen, H.  
- Chen, L.  
- Chen, Q.  
- Chen, W.  
- Chen, X.  
- Cheng, X.  
- Choi, J.  
- Chokethawai, K.  
- Coddet, C.  
- Coyle, T.  
- Curry, N.  
- Dalir, E.  
- Dandan, H.  
- Deng, C.  
- Deng, Z.  
- Denoirjean, A.  
- Dizdar, S.  
- Dolatabadi, A.  
- Dong, H.  
- Dorfman, M.  
- Dosta, S.  
- Fan, Z.  
- Farrokhpanah, A.  
- Fedorova, M.  
- Fernandez, R.  
- Fizi, Y.  
- Fujimori, K.  
- Fukumoto, M.  

**Session Chairs**  
- University of Limoges, Limoges/France  
- Research and Testing Institute Pilsen, Ltd., Pilsen/Czech Republic  
- LERMPS-UTBM, Belfort/France  
- McGill University, Montreal/Canada  
- Xi’an Jiaotong University, Xi’an/P.R. China  
- Xi’an Jiaotong University, Xi’an/P.R. China  
- Guangzhou Research Institute of Non-Ferrous Metals, Guangzhou/P.R. China  
- School of Mechanical & Materials Engineering, Jiujiang/P.R. China  
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- Shanghai Institute of Ceramics, Chinese Academy of Sciences, Shanghai/P.R. China  
- Guangzhou Research Institute of Non-Ferrous Metals, Guangzhou/P.R. China  
- Guangzhou Research Institute of Non-Ferrous Metals, Guangzhou/P.R. China  
- University of Limoges, Limoges/France  
- Högab, Högab/Sweden  
- Concordia University, Montreal/Canada  
- Xi’an Shiyou University, Xi’an/P.R. China  
- Oerlikon Metco (US) Inc., Westbury/United States of America  
- University of Barcelona, Barcelona/Spain  
- Xi’an Jiaotong University, Shaanxi/P.R. China  
- University of Toronto, Toronto/Canada  
- Technological Systems for Protective Coatings, Ltd., Moscow/Russian Federation  
- University of Ottawa, Ottawa/Canada  
- CDTA, Baba Hassen/Algeria  
- Oerlikon Metco (Japan), Ltd., Tokyo/Japan  
- Toyohashi University of Technology, Toyohashi/Japan
G
Gand, B.
GROB Werke, Mindelheim/Germany

Gansert, R.
Advanced Materials & Technology Services, Inc., Simi Valley/United States of America

Ganvir, A.
Dalian Maritime University, Dalian/P.R. China

Gao, J.
Xi’an Jiaotong University, Xi’an/P.R. China

Gao, Y.
Dalian Maritime University, Dalian/P.R. China

Gärtnert, F.
Helmut-Schmidt-University of the Federal Armed Forces, Hamburg/Germany

Garcia Cano, I.
University of Barcelona, Barcelona/Spain

Gindrat, M.
Oerlikon Metco AG, Wohlen/Switzerland

Girgulis, J.
Oerlikon Metco AG, Wohlen/Switzerland

Gizynski, M.
National Institute for Materials Science, Tsukuba/Japan

Gollwitzer, A.
BMW China, Beijing/P.R. China

Goutier, S.
University of Limoges, Limoges/France

Gr, K.
PSNA College of Engineering and Technology, Dindigul/India

Guipont, V.
MINES ParisTech, Evry/ France

Guo, H.
Beijing University of Technology, Beijing/P.R. China

Guo, W.
Shaoyang University, Shaoyang/P.R. China

Gupta, M.
University West, Trollhättan/Sweden

H
Hagen, L.
University of Dortmund, Dortmund/Germany

Han, W.
South China University of Technology, Guangzhou/P.R. China

Han, Y.
Nanjing Institute of Technology, Nanjing/P.R. China

Hauer, M.
Fraunhofer-Application Center for Large Structures, Rostock/Germany

He, W.
Forschungszentrum Jülich GmbH, Jülich/Germany

Huang, R.
Guangdong Institute of New Materials, Guangdong/P.R. China

Huang, X.
Carleton University, Ottawa/Canada

Huang, X.
The Thermal Spray Committee of China Surface Engineering Association, Beijing/P.R. China

Hussain, T.
University of Nottingham, Nottingham/Great Britain

J
Jerzembeck, J.
DVS – German Welding Society, Düsseldorf/Germany

Ji, X.
Beijing General Research Institute of Mining and Metallurgy, Beijing/P.R. China

Jia, F.
Beijing General Research Institute of Mining and Metallurgy, Beijing/P.R. China

Jia, J.
Beijing United Coatings Technologies Co., Beijing/P.R. China

Jia, Z.
Ningbo Institute of Materials Technology and Engineering, Ningbo/P.R. China

Jonnalagadda, K.
Linköping University, Linköping/Sweden

Jungklaus, H.
Voith Paper Rolls, Laakirchen/Austria

K
Katsuki, M.
Osaka University, Osaka/Japan

Kaushal, G.
Punjabi University, Patiala/India

Khor, K.
Nanyang Technological University, Singapore/Asia

Khoshdeli, A.
Freedowsi University of Mashhad, Mashhad/Iran

Kiilakoski, J.
Tampere University of Technology, Tampere/Finland

Kim, J.
Hanyang University, Seoul/Republic of Korea

King, P.
CSIRO Manufacturing, Clayton South/Australia

Kiriha, S.
Osaka University, Ibaraki/Japan

Kitamura, J.
Oerlikon Metco (Japan), Ltd., Tokyo/Japan

Knoch, M.
RWTH Aachen University, Aachen/Germany

Koh, P.
SIM University, Singapore/Singapore

Koivuluoto, H.
Tampere University of Technology, Tampere/Finland

Komatsu, K.
Nagaoka University of Technology, Niigata/Japan

Königstein, T.
RWTH Aachen University, Aachen/Germany

Korobov, Y.
Ural Federal University, Ekaterinburg/Russian Federation

Krebs, S.
Helmut-Schmidt-University of the Federal Armed Forces, Hamburg/Germany

Krivopusk, V.
Technological Systems for Protective Coatings, Ltd., Sherbinka/Russian Federation

Krömmer, W.
The Linde Group, München/Germany

Kunde, C.
DIAMANT Metalplastic GmbH, Mönchengladbach/Germany

Kuroda, S.
National Institute for Materials Science, Ibaraki/Japan

L
Lampke, T.
Chemnitz University of Technology, Chemnitz/Germany

Laul, K.
Chromalloy Gas Turbine LLC., East Meadow/United States of America

Leblanc, L.
GE-Fuel Cells, Malta/United States of America

Leblanc, R.
University of Malta, Malta/United States of America

Lee, R.
University of Alberta, Edmonton/Canada

Lee, S.
Hanyang University, Seoul/Republic of Korea

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</tr>
</thead>
<tbody>
<tr>
<td>Macdonald, D.</td>
<td>University of Ottawa, Ottawa/Canada</td>
</tr>
<tr>
<td>Mahdavi, A.</td>
<td>University of Alberta, Edmonton/Canada</td>
</tr>
<tr>
<td>Manikovsky, S.</td>
<td>Technological Systems for Protective Coatings, Ltd., Moscow/Russian Federation</td>
</tr>
<tr>
<td>Mao, J.</td>
<td>Guangzhou Research Institute of Non-Ferrous Metals, Guangzhou/P.R. China</td>
</tr>
<tr>
<td>Marcano, D.</td>
<td>Forschungszentrum Jülich GmbH, Jülich/Germany</td>
</tr>
<tr>
<td>Markocscan, N.</td>
<td>University West, Trollhättan/Sweden</td>
</tr>
<tr>
<td>Masset, P.</td>
<td>Fraunhofer-Institut für Umwelt-, Sicherheits- und Energietechnik, Sulzbach-Rosenberg/ Germany</td>
</tr>
<tr>
<td>Matikainen, V.</td>
<td>Tampere University of Technology, Tampere/Finland</td>
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<td>Mauer, G.</td>
<td>Forschungszentrum Jülich GmbH, Jülich/Germany</td>
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<td>Mayr, W.</td>
<td>University of Applied Sciences, Munich/Germany</td>
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<td>Mazilin, I.</td>
<td>Technological Systems for Protective Coatings, Ltd., Scherbinka/Russian Federation</td>
</tr>
<tr>
<td>McDonald, A.</td>
<td>University of Alberta, Edmonton/Canada</td>
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<td>Meyer, M.</td>
<td>The University of Dublin, Dublin/Ireland</td>
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<td>Moreau, C.</td>
<td>Concordia University, Montreal/Canada</td>
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<td>Mostaghimi, J.</td>
<td>University of Toronto, Toronto/Canada</td>
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<td>Musalek, R.</td>
<td>Institute of Plasma Physics AS CR, Prague/Czech Republic</td>
</tr>
<tr>
<td>Myalska, H.</td>
<td>Silesian University, Gliwice/Poland</td>
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<tr>
<td>Myoung, S.</td>
<td>Doosan Heavy Industries &amp; Construction Co., Ltd., Changwon/Republic of Korea</td>
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<td>Nakamura, J.</td>
<td>Shinshu University, Nagano City/Japan</td>
</tr>
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<td>Nascimento, A.</td>
<td>Concordia University, Montreal/Canada</td>
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<td>Nestler, M.</td>
<td>Oerlicon Metco (US) Inc., Westbury/United States of America</td>
</tr>
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<td>Nevezhin, S.</td>
<td>Ural Federal University, Ekaterinburg/Russian Federation</td>
</tr>
<tr>
<td>Ni, L.</td>
<td>Aerospace Research Institute of Materials &amp; Process Technology, Beijing/P.R. China</td>
</tr>
<tr>
<td>Nielsen, P.</td>
<td>FORCE Technology, Broendby/Denmark</td>
</tr>
<tr>
<td>Niu, S.</td>
<td>South China University of Technology, Guangzhou/P.R. China</td>
</tr>
<tr>
<td>Oki, S.</td>
<td>Kin-Ki University, Osaka/Japan</td>
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<tr>
<td>Omar, A.</td>
<td>Heriot-Watt University, Edinburgh/Great Britain</td>
</tr>
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<td>Öchsner, M.</td>
<td>Technische Universität Darmstadt, Darmstadt/Germany</td>
</tr>
<tr>
<td>Öte, M.</td>
<td>RWTH Aachen University, Aachen/Germany</td>
</tr>
<tr>
<td>Öztürk, T.</td>
<td>Middle East Technical University, Ankara/Turkey</td>
</tr>
<tr>
<td>Pan, H.</td>
<td>Shanghai Institute of Ceramics, Chinese Academy of Sciences, Shanghai/P.R. China</td>
</tr>
<tr>
<td>Pang, X.</td>
<td>Central South University, Guangzhou/P.R. China</td>
</tr>
<tr>
<td>Parco, M.</td>
<td>TECNALIA, Donostia-San Sebastián/Spain</td>
</tr>
<tr>
<td>Park, K.</td>
<td>Doosan Heavy Industries &amp; Construction, Changwon/Republic of Korea</td>
</tr>
<tr>
<td>Paul, S.</td>
<td>The Welding Institute, Cambridge/Great Britain</td>
</tr>
<tr>
<td>Peng, H.</td>
<td>Beijing General Research Institute of Mining and Metallurgy, Beijing/P.R. China</td>
</tr>
<tr>
<td>Peter, I.</td>
<td>Politecnico di Torino, Torino/Italy</td>
</tr>
<tr>
<td>Pinomaa, T.</td>
<td>Research Centre of Finland, Espoo/Finland</td>
</tr>
<tr>
<td>Planche, M.</td>
<td>LERMPS-UTBM, Belfort/France</td>
</tr>
<tr>
<td>Popa, S.</td>
<td>University of Stuttgart, Stuttgart/Germany</td>
</tr>
<tr>
<td>Pouliot, L.</td>
<td>TECNAR Automation, Ltd., St. Bruno/Canada</td>
</tr>
<tr>
<td>Profizi, P.</td>
<td>LaMCoS, Villeurbanne/France, Tohoku University, Sendai/Japan</td>
</tr>
<tr>
<td>Puerta, D.</td>
<td>Element Materials Technology, Jupiter/United States of America</td>
</tr>
<tr>
<td>Qian, Z.</td>
<td>Beijing University of Technology, Beijing/P.R. China</td>
</tr>
<tr>
<td>Quet, A.</td>
<td>CEA-DAM, Monts/France</td>
</tr>
<tr>
<td>Ren, Q.</td>
<td>Carl Zeiss Shanghai Co., Ltd., Shanghai/P.R. China</td>
</tr>
<tr>
<td>Renzhong, H.</td>
<td>Guangdong Institute of New Materials, Guangdong/P.R. China</td>
</tr>
<tr>
<td>Richter, P.</td>
<td>Impact Innovations GmbH, Haun/Germany</td>
</tr>
<tr>
<td>Rigin, A.</td>
<td>Technological Systems for Protection Coatings, Moscow/Russian Federation</td>
</tr>
<tr>
<td>Rivera-Gil, M.</td>
<td>Centro de Investigación y de Estudios Avanzados del IPN, Queretaro/Mexico</td>
</tr>
<tr>
<td>Rong, J.</td>
<td>Shanghai Institute of Ceramics, Chinese Academy of Sciences, Shanghai/P.R. China</td>
</tr>
<tr>
<td>Sachpreet Singh, A.</td>
<td>Shinas College of Technology, Shinas/Oman</td>
</tr>
<tr>
<td>Sadeghimeresht, E.</td>
<td>University West, Trollhättan/Sweden</td>
</tr>
<tr>
<td>Saitoh, H.</td>
<td>Nagaoka University of Technology, Niigata/Japan</td>
</tr>
<tr>
<td>Sakaki, K.</td>
<td>Shinshu University, Nagano City/Japan</td>
</tr>
<tr>
<td>Salimijazi, H.</td>
<td>Isfahan University of Technology, Isfahan/Iran</td>
</tr>
<tr>
<td>Name</td>
<td>Institution/Location</td>
</tr>
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<tr>
<td>Sampath, S.</td>
<td>Stony Brook University, Stony Brook/United States of America</td>
</tr>
<tr>
<td>Schaal, C.</td>
<td>University of Dortmund, Dortmund/Germany</td>
</tr>
<tr>
<td>Schauf, J.</td>
<td>University of the Federal Armed Forces Munich, Neubiberg/Germany</td>
</tr>
<tr>
<td>Schlärer, T.</td>
<td>GTV Verschleißschutz GmbH, Luckenbach/Germany</td>
</tr>
<tr>
<td>Schmid, R.</td>
<td>Oerlikon Metco AG, Wohlen/Switzerland</td>
</tr>
<tr>
<td>Schubert, J.</td>
<td>Research and Testing Institute Pilsen, Ltd., Pilsen/Czech Republic</td>
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<tr>
<td>Shahien, M.</td>
<td>National Institute of Advanced Industrial Science and Technology, Ibaraki/Japan</td>
</tr>
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<td>Shan, Y.</td>
<td>University of Shanghai for Science &amp; Technology, Shanghai/P.R. China</td>
</tr>
<tr>
<td>Shao, F.</td>
<td>Shanghai Institute of Ceramics, Chinese Academy of Sciences, Shanghai/P.R. China</td>
</tr>
<tr>
<td>Sharifi, N.</td>
<td>Concordia University, Montreal/Canada</td>
</tr>
<tr>
<td>Shi, G.</td>
<td>TWI – Thermal Welding Institute, Cambridge/Great Britain</td>
</tr>
<tr>
<td>Shi, S.</td>
<td>The Welding Institute, Cambridge/Great Britain</td>
</tr>
<tr>
<td>Shinoda, K.</td>
<td>National Institute of Advanced Industrial Science and Technology, Tsukuba/Japan</td>
</tr>
<tr>
<td>Singh, G.</td>
<td>Punjab University, Patiala/India</td>
</tr>
<tr>
<td>Singh, H.</td>
<td>IIT Ropar, Rupnagar/India</td>
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<td>Singh, M.</td>
<td>Fraunhofer UMSICHT, Sulzbach-Rosenberg/Germany</td>
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<td>Singh, R.</td>
<td>Forschungszentrum Jülich GmbH, Jülich/Germany</td>
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<tr>
<td>Smith, G.</td>
<td>Stony Brook University, Stony Brook/United States of America</td>
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<td>Sokolowski, P.</td>
<td>Wroclaw University of Technology, Wroclaw/Poland</td>
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<td>Song, W.</td>
<td>Munich University, München/Germany</td>
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<td>Song, X.</td>
<td>Beijing University of Technology, Beijing/P.R. China</td>
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<td>Forschungszentrum Jülich GmbH, Jülich/Germany</td>
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<td>Suohon, T.</td>
<td>VTT Technical Research Centre of Finland, Espoo/Finland</td>
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<tr>
<td>Sun, C.</td>
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<td>Tagliaferri, L.</td>
<td>Turbocoating S.p.a., Rubbiano di Solignano/Italy</td>
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<td>Tang, Z.</td>
<td>Northwest Mettech Corp., North Vancouver/Canada</td>
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<tr>
<td>Tao, S.</td>
<td>Shanghai Institute of Ceramics, Chinese Academy of Sciences, Shanghai/P.R. China</td>
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<td>Testrich, H.</td>
<td>INP Greifswald e.V., Greifswald/Germany</td>
</tr>
<tr>
<td>Theisen, F.</td>
<td>Camfil APC Limited, Heywood/Great Britain</td>
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<td>Turbocoating S.P.A., Rubbiano di Solignano PR/Italy</td>
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<td>Tillmann, W.</td>
<td>University of Dortmund, Dortmund/Germany</td>
</tr>
<tr>
<td>Toma, F.</td>
<td>Fraunhofer Institute Material and Beam Technology, Dresden/Germany</td>
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<tr>
<td>Turunen, E.</td>
<td>VTT Industrial Systems, Espoo/Finland</td>
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<tr>
<td>Upadhyaya, R.</td>
<td>Birla Institute of Technology &amp; Science, Pilani/India</td>
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<tr>
<td>Vardelle, A.</td>
<td>University of Limoges, Limoges/France</td>
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<td>University of Limoges, Limoges/France</td>
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<td>Vaßen, R.</td>
<td>Forschungszentrum Jülich GmbH, Jülich/Germany</td>
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<tr>
<td>Verstak, A.</td>
<td>Kermetico Inc., Benicia/Canada</td>
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<tr>
<td>Villauferte, J.</td>
<td>Centerline Windsors, Ltd., Windsor/Canada</td>
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<tr>
<td>Villa-vidaller, M.</td>
<td>Helmut Schmidt University, Hamburg/Germany</td>
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<tr>
<td>Vouristo, P.</td>
<td>Tampere University of Technology, Tampere/Finland</td>
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<td>Wang, A.</td>
<td>School of Materials Science and Engineering, Kensington/Australia</td>
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<td>Wang, C.</td>
<td>H.C. Starck GmbH, Ganzhou/P.R. China</td>
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<td>Shenzhen Institute of Advanced Technology, Shenzhen/P.R. China</td>
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<td>Beijing University of Technology, Beijing/P.R. China</td>
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<td>Wang, P.</td>
<td>Forschungszentrum Jülich GmbH, Jülich/Germany</td>
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<tr>
<td>Wang, R.</td>
<td>Xi’an Jiaotong University, Xi’an/P.R. China</td>
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<td>Wang, S.</td>
<td>Ganzhou Achtek Tool Technology Co., Ltd., Ganzhou/P.R. China</td>
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<td>East China University of Science and Technology, Shanghai/P.R. China</td>
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<td>Wang, Y.</td>
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<td>Beijing University of Technology, Beijing/P.R. China</td>
</tr>
</tbody>
</table>
Wang, Y.  
Harbin Institute of Technology, Harbin/P.R. China

Wank, A.  
GTV Verschleißschutz GmbH, Luckenbach/Germany

Wen, K.  
Guangzhou Research Institute of Non-Ferrous Metals, Guangzhou/P.R. China

Wu, C.  
SINA Corporation, Peking/P.R. China

X

Xin, Z.  
Shanghai Institute of Ceramics, Chinese Academy of Sciences, Shanghai/P.R. China

Xiong, W.  
Jiangsu University of Science and Technology, Zhenjiang/P.R. China

Xuezheng, W.  
Beijing University of Technology, Beijing/P.R. China

Y

Yamauchi, Y.  
NHK Spring, Co., Ltd., Yokohama/Japan

Yanbo, L.  
Beijing Institute of Technology Material Science and Engineering College, Beijing/P.R. China

Yang, D.  
Thermal Spray Center, Dalian/P.R. China

Yang, J.  
Shanghai Institute of Ceramics, Chinese Academy of Sciences, Shanghai/P.R. China

Yang, K.  
Shanghai Institute of Ceramics, Chinese Academy of Sciences, Shanghai/P.R. China

Yang, K.  
Guangzhou Research Institute of Non-Ferrous Metals, Guangzhou/P.R. China

Yao, M.  
Kennametal Stellite, Inc., Belleville/Canada

Yaran, N.  
Shanghai Institute of Ceramics, Chinese Academy of Sciences, Shanghai/P.R. China

Yasir, M.  
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Yin, S.  
The University of Dublin, Dublin/Ireland

Youtao, X.  
Shanghai Institute of Ceramics, Chinese Academy of Sciences, Shanghai/P.R. China

Yuan, K.  
Beijing General Research Institute of Mining and Metallurgy, Beijing/P.R. China

Yuan, X.  
Xi’an Research Institute of Hi-Tech, Xi’an/P.R. China

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Z

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Zhai, M.  
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Zhang, P.  
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Zhang, X.  
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Zhao, L.  
RWTH Aachen University, Aachen/Germany

Zhao, Y.  
Dalian Maritime University, Dalian/P.R. China

Zheng, X.  
Shanghai Institute of Ceramics, Chinese Academy of Sciences, Shanghai/P.R. China

Zhong, X.  
Shanghai Institute of Ceramics, Chinese Academy of Sciences, Shanghai/P.R. China

Zhu, H.  
Beijing General Research Institute of Mining and Metallurgy, Beijing/P.R. China

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Wednesday, May 11, 2016, 09:00 – 17:00
Thursday, May 12, 2016, 09:00 – 14:00

**Expo Only**
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Exhibitor List (Status: April 2016)

<table>
<thead>
<tr>
<th>Exhibitor</th>
<th>Country/Booth No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMS</td>
<td>P.R. China/145</td>
</tr>
<tr>
<td>AMT AG</td>
<td>USA/169</td>
</tr>
<tr>
<td>Ardeleigh Minerals, Inc.</td>
<td>USA/106</td>
</tr>
<tr>
<td>Artec S.p.A. / Turbocoating S.p.A.</td>
<td>Italy/164</td>
</tr>
<tr>
<td>Beijing SunSpraying New Material Co., Ltd.</td>
<td>P.R. China/181</td>
</tr>
<tr>
<td>BGRIMM Advanced Materials Science &amp; Technology Co., Ltd.</td>
<td>P.R. China/183</td>
</tr>
<tr>
<td>C&amp;M Technologies GmbH</td>
<td>Germany/114</td>
</tr>
<tr>
<td>Carl Zeiss (Shanghai) Co., Ltd.</td>
<td>P.R. China/124</td>
</tr>
<tr>
<td>Carpenter Powder Products</td>
<td>USA/156</td>
</tr>
<tr>
<td>Castolin Eutectic</td>
<td>Switzerland/123</td>
</tr>
<tr>
<td>Chengdu Huarui Industrial Co., Ltd.</td>
<td>P.R. China/118</td>
</tr>
<tr>
<td>Chengdu Revitalization Metals Powder Co., Ltd.</td>
<td>P.R. China/135</td>
</tr>
<tr>
<td>DeWAL Industries, Inc.</td>
<td>USA/100</td>
</tr>
<tr>
<td>DIAMANT Metallplastic GmbH</td>
<td>Germany/147</td>
</tr>
<tr>
<td>Dura-Metal (a) Pte, Ltd.</td>
<td>Singapore/154</td>
</tr>
<tr>
<td>Fujimi Incorporated</td>
<td>Japan/116</td>
</tr>
<tr>
<td>Ganzhou Achteck Tool Technology Co., Ltd.</td>
<td>P.R. China/158</td>
</tr>
<tr>
<td>Green Belt Industries Limited</td>
<td>USA/153</td>
</tr>
<tr>
<td>GTV Verschleißschutz GmbH</td>
<td>Germany/119</td>
</tr>
<tr>
<td>Guangzhou SanXin Metal S&amp;T Co., Ltd.</td>
<td>P.R. China/138</td>
</tr>
<tr>
<td>H.C. Starck GmbH / Flame Spray Technologies B.V. / Wel Trading</td>
<td>Germany/143</td>
</tr>
<tr>
<td>Höganäs Sweden AB</td>
<td>Sweden/187</td>
</tr>
<tr>
<td>Impact Innovations GmbH</td>
<td>Germany/139</td>
</tr>
<tr>
<td>Innovator Surface Technologies, Co., Ltd.</td>
<td>Taiwan/129</td>
</tr>
<tr>
<td>Jiangsu Qidi Alloy Co., Ltd.</td>
<td>P.R. China/201</td>
</tr>
<tr>
<td>Kermetico, Inc.</td>
<td>USA/106</td>
</tr>
<tr>
<td>KGS Diamond (Guangzhou) Co., Ltd.</td>
<td>P.R. China/103</td>
</tr>
<tr>
<td>Kunshan Chuang Yi Fa Thermal Spray Technology Co., Ltd.</td>
<td>P.R. China/131</td>
</tr>
<tr>
<td>Luoyang Golden Egret Geotools Co., Ltd.</td>
<td>P.R. China/136</td>
</tr>
<tr>
<td>Metallizing Equipment Co., Pvt, Ltd.</td>
<td>India/150</td>
</tr>
</tbody>
</table>

Exhibitor List (Status: April 2016)

<table>
<thead>
<tr>
<th>Exhibitor</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mettech Corp.</td>
<td>Canada/203</td>
</tr>
<tr>
<td>MILLIDYNE OY Surface Technology</td>
<td>Finland/162</td>
</tr>
<tr>
<td>Ningbo Novelmetal Technologies Co., Ltd.</td>
<td>P.R. China/170</td>
</tr>
<tr>
<td>Obrinsk Center for Powder Spraying, Ltd.</td>
<td>Russian Federation/117</td>
</tr>
<tr>
<td>Oerlikon Metco AG</td>
<td>Switzerland/141</td>
</tr>
<tr>
<td>Oseir Oy</td>
<td>Finland/107</td>
</tr>
<tr>
<td>Plasma Giken Co., Ltd.</td>
<td>Japan/104</td>
</tr>
<tr>
<td>Polymet Corporation</td>
<td>USA/155</td>
</tr>
<tr>
<td>Praxair Surface Technologies</td>
<td>USA/144</td>
</tr>
<tr>
<td>Progressive Surface, Inc.</td>
<td>USA/128</td>
</tr>
<tr>
<td>ReliaCoat Technologies</td>
<td>USA/122</td>
</tr>
<tr>
<td>Saint-Gobain North America</td>
<td>USA/142</td>
</tr>
<tr>
<td>Sentes-BIR A.S.</td>
<td>Turkey/186</td>
</tr>
<tr>
<td>Sewon Hardfacing Co., Ltd.</td>
<td>Republic of Korea/184</td>
</tr>
<tr>
<td>Shanghai Dahao Ruifa Thermal Spraying Machinery Co., Ltd.</td>
<td>P.R. China/102</td>
</tr>
<tr>
<td>Shanghai Dajing Advanced Marine Materials Co., Ltd.</td>
<td>P.R. China/121</td>
</tr>
<tr>
<td>TECNAR Automation Ltd.</td>
<td>Canada/140</td>
</tr>
<tr>
<td>Treibacher Industrie AG</td>
<td>Austria/161</td>
</tr>
<tr>
<td>TSS/ASM International, DVS, GTS</td>
<td>USA/Germany/115</td>
</tr>
<tr>
<td>UniqueCoat Technologies</td>
<td>USA/159</td>
</tr>
<tr>
<td>United Coating Technologies</td>
<td>P.R. China/167</td>
</tr>
<tr>
<td>Wall Colmonoy</td>
<td>USA/134</td>
</tr>
<tr>
<td>WEL Trading Co., Ltd.</td>
<td>P.R. China/112</td>
</tr>
<tr>
<td>Wisdom Import &amp; Export (Shanghai) Co., Ltd.</td>
<td>P.R. China/110</td>
</tr>
<tr>
<td>Wuxi City Xinke Surface Engineering Material Co., Ltd.</td>
<td>P.R. China/101</td>
</tr>
<tr>
<td>Zhengzhou Ruite Diamond Belt Co., Ltd.</td>
<td>P.R. China/130</td>
</tr>
<tr>
<td>Zhuzhou Jiangwu Boda Hardfacing Materials Co., Ltd.</td>
<td>P.R. China/177</td>
</tr>
<tr>
<td>Zhuzhou Seed Cemented Carbide Technology Co., Ltd.</td>
<td>P.R. China/132</td>
</tr>
</tbody>
</table>
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Polymet Corporation is a world-class manufacturer of high performance wire for welding, hardfacing, and thermal spraying. Polymet’s high quality wire products are used in aerospace, power generation, lumber, mining, and many other industries. www.polymet.us

Praxair Surface Technologies Inc. Booth #114
Praxair Surface Technologies offers a complete line of materials and equipment for thermal spray as well as materials for Additive Manufacturing. The extensive product line includes carbide, metallic and ceramic powders, wires, and spare parts, complemented by TAFa brand plasma, HVOF, arc spray equipment, powder feeders, and ancillary products. www.praxairsurfacetechnologies.com

Progressive Surface, Inc. Booth #148
Progressive Surface designs and builds integrated thermal spray systems and surface treatment equipment. We build turnkey systems for conventional plasma, HVOF, combustion and our 100HE High Enthalpy plasma. The 100HE is exceptional at spraying standard plasma coatings as well as suspension plasma spray (SPS) and solution precursor (SPS) coatings. www.progressivesurface.com

ReliaCoat Technologies Booth #122
ReliaCoat Technologies is introducing advanced process monitoring sensors, developing advanced software tools, and responding to existing and emerging needs in TS industries with scientifically-rooted solutions and innovations. The goal is to transfer advance concepts of monitoring TS coating properties with in-situ strategies to extract design-relevant properties within thermal spray booth. www.reliacoat.com

Saint-Gobain Booth #142
Saint-Gobain is a world class manufacturer of equipment, consumables and masking tapes for the thermal spray industry. We offer a complete line of ceramic powders, Rodicide(R) rods, flexible cords, EB-PVD ingots, tapes (HVOF and thermal spray), flame spray and plasma spray equipment. Come see our products at booth #142. www.coatingsolutions.saint-gobain.com

Sentes-BIR A.S. Booth #186 www.sentes-bir.com/forteccoat

Oseir Oy Booth #107
Oseir Ltd. is specializing in particle diagnostics using special CCD-cameras and lasers and proprietary SprayWatch and OsilRec image processing software to extract any significant data in all thermal spray processes as well as other processes where solid particles, liquid droplets and/or bubbles are present. www.oser.com

Sewon Hardfacing Co., Ltd./Changzhou Sewon Metal Products Co., Ltd. Booth #184
Sewon Hardfacing in South Korea and China focuses on competitive Thermal spraying powders/Service/Coating system & Solution provider, Yttria, Al2O3, YSZ Looking for High Purity & High Flowability leads High productivity & Cost-effective thermal spray powders as well? Please consult with Sewon’s Strategy Powder Team www.sewon-hf.com and visit to ITSC 2016, China Booth #184 www.sewon-hf.com

Shanghai Dahao Rulfia Thermal Spraying Machinery Co., Ltd. Booth #102
Shanghai Dahao Rulfia Thermal Spraying Machinery Co., Ltd was established in 1949, with a history of more than sixty years. It has created a precedent for the thermal spraying industry of China. The company invested a total of more than RMB 560000000, has advanced spraying equipment, and will be committed to coating services. www.rf-pt.com

Shanghai Dajing Advanced Marine Materials Co., Ltd Booth #121 www.dajingocean.com

TECNAR Automation Ltd Booth #140
TECNAR is the world leader in the field of advanced sensors for thermal & cold spray processes. Our portfolio covers all the range of applications from fundamental R&D to shop floor monitoring. Our flagship sensors are the DPV & Accuraspray, Please visit www.tecnar.com or email Theresa@tecnar.com for more information. www.tecnar.com

Treibacher Industrie AG Booth #161
Treibacher Industrie AG is a global advanced raw material producer with over 120-years of history in chemical and metallurgical innovation. Treibacher is a leading developer and industrial producer of a wide range of engineered ceramic powders; many of which are available as spray powder or suspensions for Suspension Plasma Spray. www.treibacher.com

UniqueCoat Technologies, LLC Booth #159
UniqueCoat Technologies produces state of the art HVOF equipment. Spray guns are specialized for ID and OD applications. ID applications start at 60 mm. Product lines include hand held and robot mounted spray guns. Other products include powder feeders, fuel delivery systems, twin wire arc, and fully integrated spray booths. www.uniquecoat.com

United Coatings Technologies Booth #187
UCT is the manufacture of thermal spray system, peripheral components, automation, and material in
China. Under one roof, UCT also provides coating services through its three plants in China.

Wall Colmonoy
Booth # 134
For over 75 years, Wall Colmonoy is a global leader in the manufacture and application of surfacing powders. COLMONOY® and WALLEX™ specially formulated alloys extend the useful life of engineered components for Glass Container, Power Gen, Oil & Gas, and Transportation industries. Applied by Laser, PTA, HVOF, and Spray-N-Fuse.

WEL Trading Co., Ltd.
Booth # 112
www.welcn.com

Wisdom Import & Export (Shanghai) Co., Ltd.
Booth # 110
Wisdom has more than 20-year experiences in hardfacing elding, thermal spray alloy products, which widely apply to chemical, metallurgy mechanism, glass, ceramic, and home appliance industries. „Quality and credit standing“ is the life of our company while „Research and innovation“ is the life line for survival.

Wuxi City Xinke Surface Engineering Material Co., Ltd.
Booth # 101
Wuxi City Xinke Surface Engineering Material Co., Ltd., founded in 1995, owns completely independent intellectual property rights and has specialized in the production and sales of WC&Mo spraying powders for over 20 years. Up to now our products have found a good sale in eight countries and regions.

Zhengzhou Ruite Diamond Belt Co., Ltd.
Booth # 130
Since 2003, RUITE is the leading professional manufacturer of super-hard coated abrasives in China, specialized in developing and manufacturing diamond & CBN belts, diamond flap discs, diamond quick-change discs, diamond mounted wheels and diamond hand pads, which are mainly used for both grinding and polishing Ceramics, Thermal Spraying, Glass, Tungsten carbide, Composite materials, etc.

Zhuzhou Jiangwu Boda Hard-facing Materials Co., Ltd.
Booth # 177
Zhuzhou BODA specialized in manufacturing hard-facing and thermal spray powders in China since 1993. The main thermal spray powders include WC Co Cr, WC Co, NiCr-Cr3C2, WC Ni, Pure Moly, and other customized grades. The hardfacing materials include cast tungsten carbide powder, spherical tungsten, chrome carbide, vanadium carbide, tantalum carbide, etc.

Zhuzhou Seed Cemented Carbide Technology Co., Ltd.
Booth # 132
www.seed-carbide.com
## EXHIBITOR PRODUCT CATEGORIES

### AUXILIARY THERMAL SPRAY EQUIPMENT

**Air Compressors**
- Guangzhou Sanxin Metal S&T Co., LTD. ........................................................ 138
- Shanghai Dahao Ruifa Thermal Spraying Machinery Co., Ltd. ........................................................ 102
- UniqueCoat Technologies, LLC .......................................................................................... 159

**Automated Spraying Systems**
- Achteck Tool Technology CO., LTD. .............................................................................. 158
- Castolin Eutectic ..................................................................................................................... 123
- Flame Spray Technologies B.V. .......................................................................................... 143
- GTV Verschleißschutz GmbH ............................................................................................ 119
- Guangzhou Sanxin Metal S&T Co., LTD. ................................................................. 138
- Metallizing Equipment Co. Pvt. Ltd. .................................................................................. 150
- Oerlikon Metco .................................................................................................................... 141
- Plasma Giken Co., Ltd. ......................................................................................................... 104
- Praxair Surface Technologies Inc. ....................................................................................... 114
- Progressive Surface, Inc. ................................................................................................. 148
- Sewon Hardfacing Co., Ltd./Changzhou Sewon Metal Products Co., Ltd. ................. 184
- Shanghai Dahao Ruifa Thermal Spraying Machinery Co., Ltd. ............................................. 102
- UniqueCoat Technologies, LLC .......................................................................................... 159
- United Coatings Technologies ......................................................................................... 167

**Exhaust Systems / Bag Houses**
- Flame Spray Technologies B.V. ...................................................................................... 143
- GTV Verschleißschutz GmbH ......................................................................................... 119
- Guangzhou Sanxin Metal S&T Co., LTD. ................................................................. 138
- Metallizing Equipment Co. Pvt. Ltd. .................................................................................. 150
- Oerlikon Metco .................................................................................................................... 141
- Plasma Giken Co., Ltd. ......................................................................................................... 104
- Praxair Surface Technologies Inc. ....................................................................................... 114
- Shanghai Dahao Ruifa Thermal Spraying Machinery Co., Ltd. ............................................. 102
- UniqueCoat Technologies, LLC .......................................................................................... 159
- United Coatings Technologies ......................................................................................... 167

**Flow Controller**
- Flame Spray Technologies B.V. ...................................................................................... 143
- GTV Verschleißschutz GmbH ......................................................................................... 119
- Guangzhou Sanxin Metal S&T Co., LTD. ................................................................. 138
- Kermetico Inc. ..................................................................................................................... 106
- Metallizing Equipment Co. Pvt. Ltd. .................................................................................. 150
- Oerlikon Metco .................................................................................................................... 141
- Plasma Giken Co., Ltd. ......................................................................................................... 104
- Shanghai Dahao Ruifa Thermal Spraying Machinery Co., Ltd. ............................................. 102
- UniqueCoat Technologies, LLC .......................................................................................... 159
- United Coatings Technologies ......................................................................................... 167

**Manipulators**
- Flame Spray Technologies B.V. ...................................................................................... 143
- GTV Verschleißschutz GmbH ......................................................................................... 119
- Guangzhou Sanxin Metal S&T Co., LTD. ................................................................. 138
- Metallizing Equipment Co. Pvt. Ltd. .................................................................................. 150
- Oerlikon Metco .................................................................................................................... 141
- Plasma Giken Co., Ltd. ......................................................................................................... 104
- Praxair Surface Technologies Inc. ....................................................................................... 114
- Shanghai Dahao Ruifa Thermal Spraying Machinery Co., Ltd. ............................................. 102
- UniqueCoat Technologies, LLC .......................................................................................... 159
- United Coatings Technologies ......................................................................................... 167

**Powder Feeder**
- Achteck Tool Technology CO., LTD. .............................................................................. 158
- Castolin Eutectic ..................................................................................................................... 123
- Flame Spray Technologies B.V. ...................................................................................... 143
- GTV Verschleißschutz GmbH ......................................................................................... 119
- Guangzhou Sanxin Metal S&T Co., LTD. ................................................................. 138
- H.C. Stark & / Flame Spray Technologies / WEL Trading ........................................... 143
- Metallizing Equipment Co. Pvt. Ltd. .................................................................................. 150
- Oerlikon Metco .................................................................................................................... 141
- Plasma Giken Co., Ltd. ......................................................................................................... 104
- Praxair Surface Technologies Inc. ....................................................................................... 114
- Shanghai Dahao Ruifa Thermal Spraying Machinery Co., Ltd. ............................................. 102
- UniqueCoat Technologies, LLC .......................................................................................... 159
- United Coatings Technologies ......................................................................................... 167

## Robotics

- Achteck Tool Technology CO., LTD. .............................................................................. 158
- Flame Spray Technologies B.V. ...................................................................................... 143
- GTV Verschleißschutz GmbH ......................................................................................... 119
- Guangzhou Sanxin Metal S&T Co., LTD. ................................................................. 138
- H.C. Stark & / Flame Spray Technologies / WEL Trading ........................................... 143
- Metallizing Equipment Co. Pvt. Ltd. .................................................................................. 150
- Plasma Giken Co., Ltd. ......................................................................................................... 104
- Praxair Surface Technologies Inc. ....................................................................................... 114
- Progressive Surface, Inc. ................................................................................................. 148
- Shanghai Dahao Ruifa Thermal Spraying Machinery Co., Ltd. ............................................. 102
- UniqueCoat Technologies, LLC .......................................................................................... 159
- United Coatings Technologies ......................................................................................... 167

## Soundproof Rooms

- Flame Spray Technologies B.V. ...................................................................................... 143
- GTV Verschleißschutz GmbH ......................................................................................... 119
- Guangzhou Sanxin Metal S&T Co., LTD. ................................................................. 138
- Metallizing Equipment Co. Pvt. Ltd. .................................................................................. 150
- Oerlikon Metco .................................................................................................................... 141
- Plasma Giken Co., Ltd. ......................................................................................................... 104
- Praxair Surface Technologies Inc. ....................................................................................... 114
- Shanghai Dahao Ruifa Thermal Spraying Machinery Co., Ltd. ............................................. 102
- UniqueCoat Technologies, LLC .......................................................................................... 159
- United Coatings Technologies ......................................................................................... 167

## Spray Booths

- Flame Spray Technologies B.V. ...................................................................................... 143
- GTV Verschleißschutz GmbH ......................................................................................... 119
- Kermetico Inc. ..................................................................................................................... 106
- Metallizing Equipment Co. Pvt. Ltd. .................................................................................. 150
- Oerlikon Metco .................................................................................................................... 141
- Plasma Giken Co., Ltd. ......................................................................................................... 104
- Praxair Surface Technologies Inc. ....................................................................................... 114
- Sewon Hardfacing Co., Ltd./Changzhou Sewon Metal Products Co., Ltd. ................. 184
- Shanghai Dahao Ruifa Thermal Spraying Machinery Co., Ltd. ............................................. 102
- UniqueCoat Technologies, LLC .......................................................................................... 159
- United Coatings Technologies ......................................................................................... 167

## Testing Equipment

- Guangzhou Sanxin Metal S&T Co., LTD. ................................................................. 138
- Kermetico Inc. ..................................................................................................................... 106
- Plasma Giken Co., Ltd. ......................................................................................................... 104
- Shanghai Dahao Ruifa Thermal Spraying Machinery Co., Ltd. ............................................. 102
- Tecnar Automation Ltd. ...................................................................................................... 140

## Wet Collectors

- Guangzhou Sanxin Metal S&T Co., LTD. ................................................................. 138
- Metallizing Equipment Co. Pvt. Ltd. .................................................................................. 150

## FINISHING SERVICES

**Grinding**
- Castolin Eutectic ..................................................................................................................... 123
- Guangzhou Sanxin Metal S&T Co., LTD. ................................................................. 138
- Kunshan Chuang Yi Fa Thermal Spray Technology Co., Ltd. ........................................... 132
- Metallizing Equipment Co. Pvt. Ltd. .................................................................................. 150

**Machining**
- Castolin Eutectic ..................................................................................................................... 123
- Kunshan Chuang Yi Fa Thermal Spray Technology Co., Ltd. ........................................... 132
- Metallizing Equipment Co. Pvt. Ltd. .................................................................................. 150
PREPARATION EQUIPMENT & SUPPLIES

Blasting Media
GTV Verschleißschutz GmbH ................................................................. 119
Guangzhou Sanxin Metal S&T Co., LTD.................................................. 138
Metallizing Equipment Co. Pvt. Ltd. ......................................................... 150
Oerlikon Metco ...................................................................................... 141
Cold Spray Equipment
Castolin Eutectic .................................................................................. 123
Flame Spray Technologies B.V. .............................................................. 143
Guangzhou Sanxin Metal S&T Co., LTD.................................................. 138
H.C. Starck / Flame Spray Technologies / WEL Trading ....................... 143
Impact Innovations GmbH .................................................................. 139
Metallizing Equipment Co. Pvt. Ltd. ......................................................... 150
Plasma Giken Co., Ltd. ........................................................................... 104
Shanghai Dahao Ruifa Thermal Spraying Machinery Co., Ltd. ............... 102
Industrial Gases
Chengdu Huaer Industrial Co., Ltd. ........................................................ 118
Masking Compounds and Tapes
DeWAL Industries, Inc. .......................................................................... 100
Flame Spray Technologies B.V. .............................................................. 143
Green Belting Industries Limited ............................................................ 153
GTV Verschleißschutz GmbH ................................................................. 119
Guangzhou Sanxin Metal S&T Co., LTD.................................................. 138
Metallizing Equipment Co. Pvt. Ltd. ......................................................... 150
Oerlikon Metco ...................................................................................... 141
Sant-Gobain .......................................................................................... 142
Shanghai Dahao Ruifa Thermal Spraying Machinery Co., Ltd. ............... 102
Pressure and Vacuum Blasting
Flame Spray Technologies B.V. .............................................................. 143
GTV Verschleißschutz GmbH ................................................................. 119
Metallizing Equipment Co. Pvt. Ltd. ......................................................... 150
TESTING, R&D, EDUCATION

Contract Research
GTV Verschleißschutz GmbH ................................................................. 119
Impact Innovations GmbH ....................................................................... 139
Metallizing Equipment Co. Pvt. Ltd. ......................................................... 150
Mettech Corp. ...................................................................................... 203

Mildlyne ............................................................................................... 162
Shanghai Dahao Ruifa Thermal Spraying Machinery Co., Ltd. ............... 102

Educational
Shanghai Dahao Ruifa Thermal Spraying Machinery Co., Ltd. ............... 102

Market Research
Metallizing Equipment Co. Pvt. Ltd. ......................................................... 150
Wuxi City Xinke Surface Engineering Material Co., Ltd. ......................... 101

Test Coupons
GTV Verschleißschutz GmbH ................................................................. 119
Impact Innovations GmbH ....................................................................... 139
Metallizing Equipment Co. Pvt. Ltd. ......................................................... 150
Mettech Corp. ...................................................................................... 203

Testing Services/Equipment/Supplies
Flame Spray Technologies B.V. .............................................................. 143
Metallizing Equipment Co. Pvt. Ltd. ......................................................... 150
Shanghai Dahao Ruifa Thermal Spraying Machinery Co., Ltd. ............... 102
Tecnio Automation Ltd. .......................................................................... 140
Wuxi City Xinke Surface Engineering Material Co., Ltd. ......................... 101

THERMAL SPRAY APPLICATIONS

Abradable Applications
Flame Spray Technologies B.V. .............................................................. 143
GTV Verschleißschutz GmbH ................................................................. 119
Guangzhou Sanxin Metal S&T Co., LTD.................................................. 138
Kunshan Chuang Yi Fa Thermal Spray Technology Co., Ltd. ................... 132
Metallizing Equipment Co. Pvt. Ltd. ......................................................... 150
Mettech Corp. ...................................................................................... 203
Oerlikon Metco ...................................................................................... 141
Plasma Giken Co., Ltd. ........................................................................... 104
Progressive Surface, Inc. ...................................................................... 148
Sewon Hardfacing Co., Ltd./Changzhou Sewon Metal Products Co., Ltd. 184
Shanghai Dahao Ruifa Thermal Spraying Machinery Co., Ltd. ............... 102
UniqueCoat Technologies, LLC ............................................................... 159
United Coatings Technologies ............................................................... 167
Wisdom Import & Export (Shanghai) Co., Ltd. ....................................... 110
Wuxi City Xinke Surface Engineering Material Co., Ltd. ......................... 101

Atmospheric Corrosion
Ningbo Novelmetal Technologies Co., Ltd. ............................................. 170
Flame Spray Technologies B.V. .............................................................. 143
GTV Verschleißschutz GmbH ................................................................. 119
Guangzhou Sanxin Metal S&T Co., LTD.................................................. 138
Kunshan Chuang Yi Fa Thermal Spray Technology Co., Ltd. ................... 132
Metallizing Equipment Co. Pvt. Ltd. ......................................................... 150
Mettech Corp. ...................................................................................... 203
Oerlikon Metco ...................................................................................... 141
Plasma Giken Co., Ltd. ........................................................................... 104
Sewon Hardfacing Co., Ltd./Changzhou Sewon Metal Products Co., Ltd. 184
United Coatings Technologies ............................................................... 167
Wisdom Import & Export (Shanghai) Co., Ltd. ....................................... 110
Wuxi City Xinke Surface Engineering Material Co., Ltd. ......................... 101

Clearance Control
Flame Spray Technologies B.V. .............................................................. 143
GTV Verschleißschutz GmbH ................................................................. 119
Guangzhou Sanxin Metal S&T Co., LTD.................................................. 138
Kunshan Chuang Yi Fa Thermal Spray Technology Co., Ltd. ................... 132
Metallizing Equipment Co. Pvt. Ltd. ......................................................... 150
Mettech Corp. ...................................................................................... 203
Oerlikon Metco ...................................................................................... 141
Plasma Giken Co., Ltd. ........................................................................... 104
Sewon Hardfacing Co., Ltd./Changzhou Sewon Metal Products Co., Ltd. 184
United Coatings Technologies ............................................................... 167

Electrical/Electronics
Flame Spray Technologies B.V. .............................................................. 143
GTV Verschleißschutz GmbH ................................................................. 119

ITSC 2016 Final Program | 43
Guangzhou Sanxin Metal S&T Co., LTD. .......................................................... 138
Kunshan Chuang Yi Fa Thermal Spray Technology Co., Ltd. .......................... 132
Metallizing Equipment Co. Pvt. Ltd. ................................................................. 150
Mettech Corp. ................................................................................................. 203
Oerlikon Metco ................................................................................................ 141
Plasma Giken Co., Ltd. ................................................................................... 104
Progressive Surface, Inc. ................................................................................ 148
Sewon Hardfacing Co., Ltd./Changzhou Sewon Metal Products Co., Ltd. ... 184
United Coatings Technologies ......................................................................... 167
Shanghai Dahao RuiFa Thermal Spraying Machinery Co., Ltd. ................. 102
Progressive Surface, Inc. ................................................................................ 148
Sewon Hardfacing Co., Ltd./Changzhou Sewon Metal Products Co., Ltd. ... 184
Shanghai Dahao RuiFa Thermal Spraying Machinery Co., Ltd. ................. 102
UniqueCoat Technologies, LLC .................................................................... 159
Wisdom Import & Export (Shanghai) Co., Ltd. ............................................. 110
Xuxi City Xinke Surface Engineering Material Co., Ltd. ............................ 101

THERMAL SPRAY APPLICATORS

On-site Coating Services
Ningbo Novelmetal Technologies Co., Ltd. ..................................................... 170
Castolin Eutectic ............................................................................................. 123
Guangzhou Sanxin Metal S&T Co., LTD ......................................................... 138
Sewon Hardfacing Co., Ltd./Changzhou Sewon Metal Products Co., Ltd. ... 184
Shanghai Dahao RuiFa Thermal Spraying Machinery Co., Ltd. ................. 102
United Coatings Technologies ......................................................................... 167

Shop Coating Services
Ningbo Novelmetal Technologies Co., Ltd. ..................................................... 170
Achteck Tool Technology CO., LTD. ............................................................. 158
Castolin Eutectic ............................................................................................. 123
Guangzhou Sanxin Metal S&T Co., LTD ......................................................... 138
Kermetico Inc. ................................................................................................. 106
Metallizing Equipment Co. Pvt. Ltd. ................................................................. 150
Plasma Giken Co., Ltd. ................................................................................... 104
Sewon Hardfacing Co., Ltd./Changzhou Sewon Metal Products Co., Ltd. ... 184
Shanghai Dahao RuiFa Thermal Spraying Machinery Co., Ltd. ................. 102
UniqueCoat Technologies, LLC .................................................................... 159
United Coatings Technologies ......................................................................... 167

Volume Production
Ningbo Novelmetal Technologies Co., Ltd. ..................................................... 170
Guangzhou Sanxin Metal S&T Co., LTD ......................................................... 138
Mettech Corp. ................................................................................................. 203
Oerlikon Metco ................................................................................................. 141
Plasma Giken Co., Ltd. ................................................................................... 104
Sewon Hardfacing Co., Ltd./Changzhou Sewon Metal Products Co., Ltd. ... 184
Shanghai Dahao RuiFa Thermal Spraying Machinery Co., Ltd. ................. 102
United Coatings Technologies ......................................................................... 167

THERMAL SPRAY EQUIPMENT

Ceramic Rod Combustion
Metallizing Equipment Co. Pvt. Ltd. ................................................................. 150
Saint-Gobain ................................................................................................... 142
Shanghai Dahao RuiFa Thermal Spraying Machinery Co., Ltd. ................. 102

Cold Spray Equipment
Castolin Eutectic ............................................................................................. 123
Flame Spray Technologies B.V. .................................................................... 143
Guangzhou Sanxin Metal S&T Co., LTD ......................................................... 138
H.C. Starck / Flame Spray Technologies / WEL Trading ............................ 143
Impact Innovations GmbH ........................................................................... 139
Metallizing Equipment Co. Pvt. Ltd. ................................................................. 150
Plasma Giken Co., Ltd. ................................................................................... 104
Shanghai Dahao RuiFa Thermal Spraying Machinery Co., Ltd. ................. 102

Combustion
Flame Spray Technologies B.V. .................................................................... 143
Guangzhou Sanxin Metal S&T Co., LTD ......................................................... 138
Oerlikon Metco ................................................................................................. 141
Shanghai Dahao RuiFa Thermal Spraying Machinery Co., Ltd. ................. 102
United Coatings Technologies ......................................................................... 167

Consumable Parts
Flame Spray Technologies B.V. .................................................................... 143
# THERMAL SPRAY PROCESS SUPPLIES

## Carbide Powders
- **Achteck Tool Technology Co., LTD.** .................................................. 158
- **C&M Technologies GmbH** ................................................................. 114
- **Castolin Eutectic** .......................................................... 123
- **Chengdu Huarui Industrial Co., Ltd.** ........................................... 118
- **Chengdu Revitalization Metals Powder Co., Ltd.** ................. 135
- **Flame Spray Technologies B.V.** .................................................... 143
- **GTV Verschleißschutz GmbH** ....................................................... 119
- **Guangzhou Sanxin Metal S&T Co., LTD.** .................................. 138
- **H.C. Starck / Flame Spray Technologies / WEL Trading** .......... 143
- **Höganäs** .................................................................................. 187
- **Metalizing Equipment Co. Pvt. Ltd.** ........................................... 150
- **Mettech Corp.** ........................................................................ 203
- **Oerlikon Metco** .......................................................... 141
- **Plasma Giken Co., Ltd.** .......................................................... 104
- **Praxair Surface Technologies Inc.** ............................................... 114
- **Saint-Gobain** ........................................................................ 142
- **Sewon Hardfacing Co., Ltd./Changzhou Sewon Metal Products Co., Ltd.** .................................................. 184
- **Shanghai Dahao Ruifa Thermal Spraying Machinery Co., Ltd.** .... 102
- **Shanghai Dahao Ruifa Thermal Spraying Machinery Co., Ltd.** .... 102
- **UniqueCoat Technologies, LLC** .................................................. 159
- **Wuxi City Xirke Surface Engineering Material Co., Ltd.** ............ 167
- **Zhuzhou Jiangwu Boda Hard-facing Materials Co., Ltd.** ........... 177

## Sealants
- **Diamant Metallplastic GmbH** ........................................................ 147
- **Guangzhou Sanxin Metal S&T Co., LTD.** .................................. 138
- **Höganäs** .................................................................................. 187
- **Metalizing Equipment Co. Pvt. Ltd.** ........................................... 150
- **Miltidyne** .............................................................................. 162
- **Oerlikon Metco** ........................................................................ 141
- **Plasma Giken Co., Ltd.** .......................................................... 104
- **Praxair Surface Technologies Inc.** ............................................... 114
- **Sewon Hardfacing Co., Ltd./Changzhou Sewon Metal Products Co., Ltd.** .................................................. 184
- **Shanghai Dahao Ruifa Thermal Spraying Machinery Co., Ltd.** .... 102
- **United Coatings Technologies** ..................................................... 167

## Ceramic Powders
- **Chengdu Huarui Industrial Co., Ltd.** ........................................... 118
- **Flame Spray Technologies B.V.** .................................................... 143
- **GTV Verschleißschutz GmbH** ....................................................... 119
- **Guangzhou Sanxin Metal S&T Co., LTD.** .................................. 138
- **H.C. Starck / Flame Spray Technologies / WEL Trading** .......... 143
- **Höganäs** .................................................................................. 187
- **Metalizing Equipment Co. Pvt. Ltd.** ........................................... 150
- **Miltidyne** .............................................................................. 162
- **Oerlikon Metco** ........................................................................ 141
- **Plasma Giken Co., Ltd.** .......................................................... 104
- **Praxair Surface Technologies Inc.** ............................................... 114
- **Saint-Gobain** ........................................................................ 142
- **Sewon Hardfacing Co., Ltd./Changzhou Sewon Metal Products Co., Ltd.** .................................................. 184
- **Shanghai Dahao Ruifa Thermal Spraying Machinery Co., Ltd.** .... 102
- **United Coatings Technologies** ..................................................... 167
- **Wuxi City Xirke Surface Engineering Material Co., Ltd.** ............ 167
- **Zhuzhou Jiangwu Boda Hard-facing Materials Co., Ltd.** ........... 177

## Ceramic Rods
- **Chengdu Huarui Industrial Co., Ltd.** ........................................... 118
- **GTV Verschleißschutz GmbH** ....................................................... 119
- **Guangzhou Sanxin Metal S&T Co., LTD.** .................................. 138
- **Metalizing Equipment Co. Pvt. Ltd.** ........................................... 150
- **Plasma Giken Co., Ltd.** .......................................................... 104
- **Praxair Surface Technologies Inc.** ............................................... 114
- **Saint-Gobain** ........................................................................ 142
- **Sewon Hardfacing Co., Ltd./Changzhou Sewon Metal Products Co., Ltd.** .................................................. 184
- **Shanghai Dahao Ruifa Thermal Spraying Machinery Co., Ltd.** .... 102
- **United Coatings Technologies** ..................................................... 167
- **Wuxi City Xirke Surface Engineering Material Co., Ltd.** ............ 167
- **Zhuzhou Jiangwu Boda Hard-facing Materials Co., Ltd.** ........... 177
<table>
<thead>
<tr>
<th>Industrial Gases</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chengdu Huarui Industrial Co., Ltd.</td>
<td>118</td>
</tr>
<tr>
<td>Huganäs</td>
<td>119</td>
</tr>
<tr>
<td>Guangzhou Sanxin Metal S&amp;T Co., LTD</td>
<td>138</td>
</tr>
<tr>
<td>Metallizing Equipment Co. Pvt. Ltd.</td>
<td>150</td>
</tr>
<tr>
<td>Oerlikon Metco</td>
<td>141</td>
</tr>
<tr>
<td>Shanghai Dahao Ruifa Thermal Spraying Machinery Co., Ltd.</td>
<td>102</td>
</tr>
<tr>
<td>United Coatings Technologies</td>
<td>167</td>
</tr>
<tr>
<td>Zhuzhou Jiangwu Boda Hard-facing Materials Co., Ltd.</td>
<td>177</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Intermetallic Powders</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chengdu Huarui Industrial Co., Ltd.</td>
<td>118</td>
</tr>
<tr>
<td>Flame Spray Technologies B.V.</td>
<td>143</td>
</tr>
<tr>
<td>GTV Verschleißschutz GmbH</td>
<td>119</td>
</tr>
<tr>
<td>Guangzhou Sanxin Metal S&amp;T Co., LTD</td>
<td>138</td>
</tr>
<tr>
<td>H.C. Starck / Flame Spray Technologies / WEL Trading</td>
<td>143</td>
</tr>
<tr>
<td>Höganäs</td>
<td>187</td>
</tr>
<tr>
<td>Metallizing Equipment Co. Pvt. Ltd.</td>
<td>150</td>
</tr>
<tr>
<td>Oerlikon Metco</td>
<td>141</td>
</tr>
<tr>
<td>Praxair Surface Technologies Inc.</td>
<td>114</td>
</tr>
<tr>
<td>Shanghai Dahao Ruifa Thermal Spraying Machinery Co., Ltd.</td>
<td>102</td>
</tr>
<tr>
<td>United Coatings Technologies</td>
<td>167</td>
</tr>
<tr>
<td>Wisdom Consumables</td>
<td>110</td>
</tr>
<tr>
<td>Wuxi City Xinke Surface Engineering Material Co., Ltd.</td>
<td>101</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Metallic Powders</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ningbo Novelmetal Technologies Co., Ltd.</td>
<td>170</td>
</tr>
<tr>
<td>Castolin Eutectic</td>
<td>123</td>
</tr>
<tr>
<td>Chengdu Huarui Industrial Co., Ltd.</td>
<td>118</td>
</tr>
<tr>
<td>Chengdu Revitalization Metals Powder Co., Ltd.</td>
<td>135</td>
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<tr>
<td>Flame Spray Technologies B.V.</td>
<td>143</td>
</tr>
<tr>
<td>GTV Verschleißschutz GmbH</td>
<td>119</td>
</tr>
<tr>
<td>Guangzhou Sanxin Metal S&amp;T Co., LTD</td>
<td>138</td>
</tr>
<tr>
<td>H.C. Starck / Flame Spray Technologies / WEL Trading</td>
<td>143</td>
</tr>
<tr>
<td>Höganäs</td>
<td>187</td>
</tr>
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<td>150</td>
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<tr>
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<td>141</td>
</tr>
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<td>Praxair Surface Technologies Inc.</td>
<td>114</td>
</tr>
<tr>
<td>Shanghai Dahao Ruifa Thermal Spraying Machinery Co., Ltd.</td>
<td>102</td>
</tr>
<tr>
<td>United Coatings Technologies</td>
<td>167</td>
</tr>
<tr>
<td>Wisdom Consumables</td>
<td>110</td>
</tr>
<tr>
<td>Wuxi City Xinke Surface Engineering Material Co., Ltd.</td>
<td>101</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other Powders</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>C&amp;M Technologies GmbH</td>
<td>114</td>
</tr>
<tr>
<td>Chengdu Huarui Industrial Co., Ltd.</td>
<td>118</td>
</tr>
<tr>
<td>Chengdu Revitalization Metals Powder Co., Ltd.</td>
<td>135</td>
</tr>
<tr>
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<td>143</td>
</tr>
<tr>
<td>GTV Verschleißschutz GmbH</td>
<td>119</td>
</tr>
<tr>
<td>Guangzhou Sanxin Metal S&amp;T Co., LTD</td>
<td>138</td>
</tr>
<tr>
<td>H.C. Starck / Flame Spray Technologies / WEL Trading</td>
<td>143</td>
</tr>
<tr>
<td>Höganäs</td>
<td>187</td>
</tr>
<tr>
<td>Metallizing Equipment Co. Pvt. Ltd.</td>
<td>150</td>
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<tr>
<td>Millidyne</td>
<td>162</td>
</tr>
<tr>
<td>Oerlikon Metco</td>
<td>141</td>
</tr>
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<td>Praxair Surface Technologies Inc.</td>
<td>114</td>
</tr>
<tr>
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<td>102</td>
</tr>
<tr>
<td>United Coatings Technologies</td>
<td>167</td>
</tr>
<tr>
<td>Zhuzhou Jiangwu Boda Hard-facing Materials Co., Ltd.</td>
<td>177</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Self Fluxing Powders</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>C&amp;M Technologies GmbH</td>
<td>114</td>
</tr>
<tr>
<td>Chengdu Huarui Industrial Co., Ltd.</td>
<td>118</td>
</tr>
<tr>
<td>Chengdu Revitalization Metals Powder Co., Ltd.</td>
<td>135</td>
</tr>
<tr>
<td>Flame Spray Technologies B.V.</td>
<td>143</td>
</tr>
<tr>
<td>GTV Verschleißschutz GmbH</td>
<td>119</td>
</tr>
<tr>
<td>Guangzhou Sanxin Metal S&amp;T Co., LTD</td>
<td>138</td>
</tr>
<tr>
<td>Höganäs</td>
<td>187</td>
</tr>
<tr>
<td>Metallizing Equipment Co. Pvt. Ltd.</td>
<td>150</td>
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<td>141</td>
</tr>
<tr>
<td>Praxair Surface Technologies Inc.</td>
<td>114</td>
</tr>
<tr>
<td>Shanghai Dahao Ruifa Thermal Spraying Machinery Co., Ltd.</td>
<td>102</td>
</tr>
<tr>
<td>United Coatings Technologies</td>
<td>167</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wires</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ningbo Novelmetal Technologies Co., Ltd.</td>
<td>170</td>
</tr>
<tr>
<td>Castolin Eutectic</td>
<td>123</td>
</tr>
<tr>
<td>Chengdu Huarui Industrial Co., Ltd.</td>
<td>118</td>
</tr>
<tr>
<td>Flame Spray Technologies B.V.</td>
<td>143</td>
</tr>
<tr>
<td>GTV Verschleißschutz GmbH</td>
<td>119</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Thermal Spray Removal</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guangzhou Sanxin Metal S&amp;T Co., LTD</td>
<td>138</td>
</tr>
<tr>
<td>H.C. Starck / Flame Spray Technologies / WEL Trading</td>
<td>143</td>
</tr>
<tr>
<td>Metallizing Equipment Co. Pvt. Ltd.</td>
<td>150</td>
</tr>
<tr>
<td>Oerlikon Metco</td>
<td>141</td>
</tr>
<tr>
<td>Polymet Corporation</td>
<td>155</td>
</tr>
<tr>
<td>Praxair Surface Technologies Inc.</td>
<td>114</td>
</tr>
<tr>
<td>Shanghai Dahao Ruifa Thermal Spraying Machinery Co., Ltd.</td>
<td>102</td>
</tr>
<tr>
<td>United Coatings Technologies</td>
<td>167</td>
</tr>
<tr>
<td>Wisdom Consumables</td>
<td>110</td>
</tr>
<tr>
<td>Wisdom Import &amp; Export (Shanghai) Co., Ltd.</td>
<td>110</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Water and Cleaning Systems</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guangzhou Sanxin Metal S&amp;T Co., LTD</td>
<td>138</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trade Associations/Professional Societies</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guangzhou Sanxin Metal S&amp;T Co., LTD.</td>
<td>138</td>
</tr>
<tr>
<td>Shanghai Dahao Ruifa Thermal Spraying Machinery Co., Ltd.</td>
<td>102</td>
</tr>
</tbody>
</table>

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