

SUMMER SCHOOL

on
Suspension & Solution
Thermal Spraying

SEPTEMBER 14-16
2016

SUMMER SCHOOL THEME

Thermal spraying of liquid feedstocks in the form of a suspension or a solution has gained vital interest among the scientific and industrial community, especially during the last decade. Employing a liquid feedstock results in unique microstructural features which are significantly different as compared to the conventional coatings created by a powder feedstock resulting in enhanced functional performance. A few key applications which would benefit from thermal spraying with liquid feedstocks include aerospace, biomedicine, energy conversion, automotive, etc.

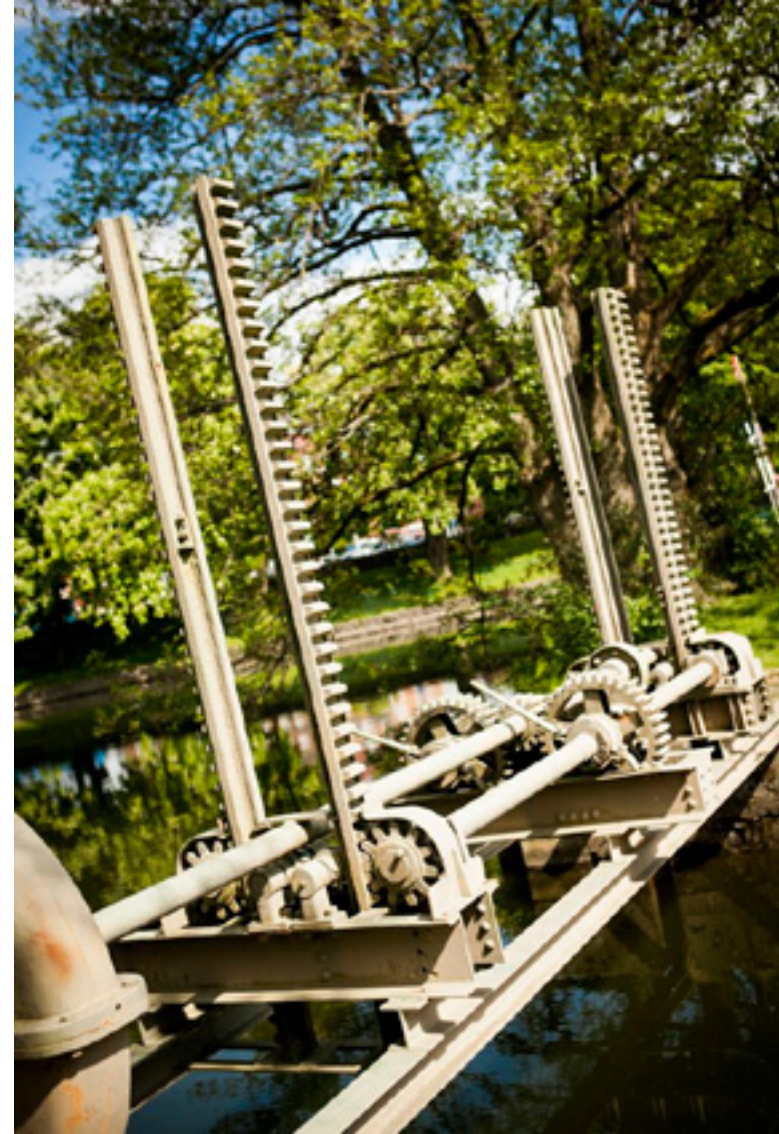
This summer school would include lectures from experts in academics as well as industry covering all major aspects of liquid feedstock spraying from fundamentals and process diagnostics to characterization and applications. The school will also include a demonstration of the state-of-the-art suspension plasma spraying equipment available at University West.



WELCOME TO TROLLHÄTTAN

It is with great enthusiasm we invite you to the 2016 Summer School on Suspension & Solution Thermal Spraying, to be held in Trollhättan, Sweden.

Trollhättan is synonymous with industry and technology, but is best characterised by creativity. This applies to most things the development of the area's hydropower, innovative companies, continual technological improvements and automotive and aeroplane production. SAAB and GKN Aerospace has their headquarters in Trollhättan and components used by the European Space Agency are also made here. Modern-day Trollhättan is Sweden's greenest 'industry town'. The city belongs to a region with strong growth, at the heart of an area which contains two-thirds of Scandinavia's industry. The venue will be conveniently located in the city centre, with accommodation close by eliminating time-consuming and costly transportations. We are looking forward to seeing you all in Trollhättan during 14–16 September 2016!



WHO SHOULD ATTEND?

All stakeholders (scientists, engineers, academicians and consultants) who are associated with the field of surface engineering in any manner.

IN PARTICULAR, PARTICIPATION IN THE SCHOOL WILL BE OF GREAT INTEREST TO:

Young scientists and students, keen to learn about new developments in thermal spray processes.

Knowledgeable researchers, seeking to explore new areas in surface engineering

Experienced thermal spray practitioners, wanting to exploit advanced thermal spray methods, like suspension spraying SPS, SPPS, HVFS etc.

Designers and consultants, wishing to familiarize themselves with latest developments

Feedstock manufacturers and developers, with specific focus on nano-sized and sub-micron powders, their suspensions and/or solution precursors

Manufacturers and developers of thermal spray equipment and accessories (spray guns, solution delivery devices etc.)

CONFIRMED SPEAKERS

We are very pleased to welcome experts in the field of Thermal Spraying to hold lectures during the Summer School.

In order to cover all aspects of liquid feedstock in Thermal Spraying, we have invited leading authority and professionals from the academic world, as well as from the industry. Some of the already confirmed speakers are indicated below.

L. PAWLOWSKI

University of Limoges, **France**

R. VASSEN

Forschungszentrum Jülich, **Germany**

P. NYLÉN

University West, **Sweden**

A.KILLINGER

University of Stuttgart, **Germany**

O.KESLER

University of Toronto, **Canada**

J. PURANEN & P. VUORISTO

Tampere University of Technology, **Finland**

NICHOLAS CURRY

Treibacher, **Austria**

KENT VANEVERY

Progressive Surface, **USA**

FILOFTEIA-LAURA TOMA

Germany

G. BOLELLI

University of Modena and Reggio Emilia, **Italy**

N. MARKOCSAN

University West, **Sweden**

S. JOSHI

University West, **Sweden**

TOPICS ADDRESSED

Fundamentals of Suspension Plasma Spraying (SPS)

Coating formation by Solution Precursor Plasma Spraying (SPPS)

Plasma-droplet interactions

Feedstock manufacture

Solution & suspension characterization

Spray equipment design

Process parameter impact

Process diagnostics

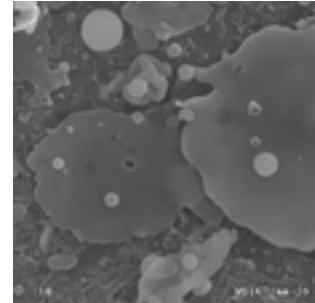
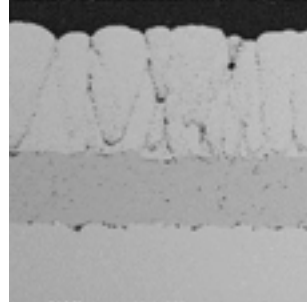
Suspension HVOF/HVAF

Safety & environment

Applications (Advanced TBCs, SOFCs, Bioceramics, Wear)

Economics & commercialization

SPS Demonstration



COURSE FEE

The course fee includes two full days of courses (15th & 16th of September) on various topics related to suspension and solution thermal spraying and SPS demonstration.

Our fee also includes, lunch, dinner and hotel accommodation for 3 nights stay, including the welcome reception & dinner on 14th of September.

On the 17th of September, we provide a social program.

For your convenience, we will also prepare and distribute printed course material and for completing the course you will receive a course certificate.



FULL PACKAGE: **12 000 SEK**
10 000 SEK (ETSA members & students)

Please book your spot on hv.se/summerschool at latest by 30th of July

