

Purpose: Corrosion summer school is intended for PhD students but also for practitioners who want to learn about corrosion and corrosion protection. Lecturers from both academia and industry will present theoretical background and practical experience on selected corrosion issues.

Organized by: Faculty of Chemical Engineering and Technology, Faculty of Mechanical Engineering and Naval Architecture at University of Zagreb and Croatian Society for Materials Protection

Program:

1st July Corrosion basics and corrosion monitoring	<i>Corrosion basics</i> – electrochemical principles of corrosion, corrosive environments, forms of corrosion <i>Corrosion monitoring</i> – applicability, choosing the right technique <i>Corrosion management</i> <i>Practical work</i> - corrosion rate determination by electrochemical methods
2nd July Corrosion inhibitors	<i>Corrosion inhibitor basics</i> – protection mechanisms, types of corrosion inhibitors, areas of application <i>Application of corrosion inhibitors</i> – practical examples and case studies <i>Practical work</i> - Determination of inhibitor mechanism and efficiency by polarization and EIS measurements
3rd July Cathodic protection	<i>Cathodic protection basics</i> - general principles of CP operation, cathodic protection criteria, calculations for CP design <i>Cathodic protection application</i> – case studies of field measurements <i>Practical work</i> - Simulation of coating survey techniques
4th July Organic coatings	<i>Organic coatings basics</i> – principles of corrosion protection, laboratory and field testing methods and recent advancements in coating technology <i>Coatings application</i> – QA, QC and case studies of failure analysis <i>Practical work</i> – Electrochemical impedance of protective coatings
5th July Stainless steel (SS)	<i>Corrosion of SS</i> - forms of corrosion in different environments <i>Application of SS</i> - selection, surface treatment and failure analysis <i>Practical work</i> – standardized laboratory and industrial test, passivation of SS and corrosion resistance determination

Lecturers:

Academia: Prof. Dr. Sanja Martinez, Prof. Dr. Vesna Alar, Assoc. Prof. Dr. Helena Otmacic Curkovic, Assist. Prof. Ivan Stojanovic, Assist. Prof. Vinko Simunovic, Dajana Mikic Mag. Appl. Chem, Ivana Soic, Mag. Appl. Chem. Marin Kurtela Mag. Ing. Aeroing.

Industry: Kresimir Kekez (*NACE CP3, Icorr Pipeline Coating inspector*), Bojan Hudec (*NACE: CPI, CIP Level2*)

Place: Faculty of Chemical Engineering and Technology, University of Zagreb, Marulićev trg 19, Zagreb Croatia

Price of the summer school:

PhD students: 500€ (tax included)

Other participants: 1500€ (tax included)

1 day participation:

PhD students: 100€ (tax included)

Other participants: 300€ (tax included)

Important dates:

Course dates: 01/07/2019 – 05/07/2019

Deadline for application: 01/06/2019

Payment due by: 15/06/2019

Contact:

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PhD students who, in three months upon the summer school, submit a report on a given topic will be awarded with **ECTS points** (expected 3 points).