

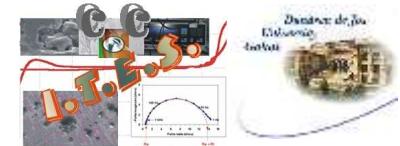


COST D33 - CHEMISTRY

Reference code:

COST-Workshop-D33-01808

WORKSHOP Meeting



Local Organiser

COST D33 EU Project:

Nanoscale Electrochemical and Bioprocesses (Corrosion) at Solid-aqueous Interfaces of Industrial Materials

WG 1:

Development, adaptation and coupling of surface science methods for an improved analysis of the chemical processes occurring at the interfaces between materials and micro-organisms.

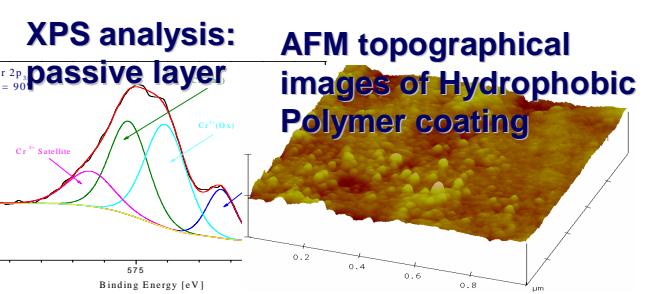
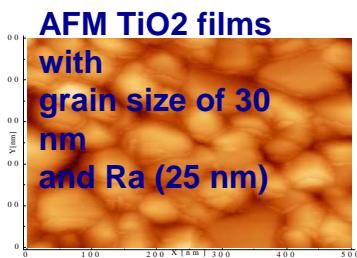
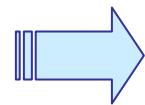
WG1 Leader and Local Organiser: Prof. Dr. Lidia BENEÀ

Period: 6th to 8th November 2008

Meeting place:

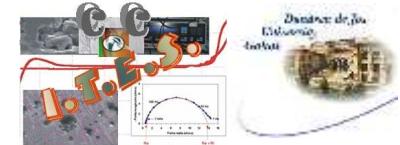
Palace of National Military Circle

Constantin Mille street, No.1 or Bulevardul Elisabeta nr.2 Bucharest (in the downtown, close by the University of Bucharest, Capsa Hotel, etc).





WORKSHOP Meeting



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Program

06 of November 2008:
Arrivals

07 of November 2008:

09h00-09h30 Opening- Welcoming: WG1 coordinator.

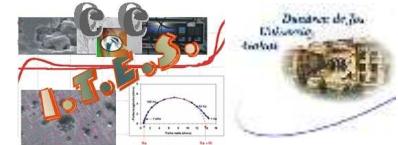
Chair: Prof. Guenter SCHMITT, Prof. Lidia BENEÀ.

09h30-10h30: Invited Speaker: Prof. Pietro CAVALLOTTI:
Politecnico di Milano - Metallurgical Coatings and Surface Engineering, Italy.

Title: Electrodeposition of nanodots for improved interaction with organic substances of surfaces.



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10h30 – 11h00: Dr. Philippe MARCUS:

Laboratoire de Physico-Chimie des Surfaces CNRS-ENSCP (UMR 7045) Ecole Nationale Supérieure de Chimie de Paris - Université Pierre et Marie Curie Paris, France.

Title: XPS and ToF-SIMS investigation of plasma treated stainless steel surfaces for antifouling properties.

Authors: S. Zanna, A. Seyeux, C. Saulou, M. Mercier-Bonin, B. Despax, P. Raynaud, P. Marcus

11h00-11h15: Coffee break

11h15 – 11h45: Dr. Georg PAPASTAVROU:

Department of Applied Chemistry, University of Geneva, Switzerland.

Title: Some thoughts about protein adsorption to modified electrodes.

11h45 – 12h00: Drd. Alina-Crina CIUBOTARIU:

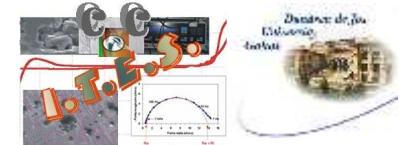
Dunărea de Jos University of Galati – CC-ITES, Romania.

Title: Combined Atomic Force and Epifluorescence Microscopy for Visualization of Sulphate Reducing Bacteria on SiC / Ni composite coatings.

Authors: Alina Ciubotariu, Lidia Benea, Wolfgang Sand



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12h15-12h30: Dr. Paula COJOCARU:

Politecnico di Milano Chemical Engineering Faculty, Italy.

Title: Comparison of the electrochemical behavior of stainless steels in abiotic and biotic seawater.

12h30 – 12h45: Prof. Guenter SCHMITT:

*Institut für Instandhaltung und Korrosionsschutztechnik gGmbH,
Iserlohn, Germany.*

Title: MIC in Stainless Steel Plumbing Systems for Drinking Water
Authors: Günter Schmitt, Hubertus Schlerkemann, Wolfgang Sand,
H. Klemp

12h45 – 13h00: Dr. Andrzej KUKLINSKI:

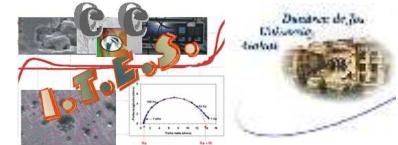
*Universität Duisburg-Essen, Biofilm Centre / Aquatische Biotechnologie,
Duisburg, Germany.*

Title: Recent advances in applying combined AFM/EFM
Authors: Andrzej Kuklinski, Wolfgang Sand.

13h00-15h00: Lunch.



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Chair: Dr. Philippe MARCUS, Dr. Georg PAPASTAVROU.

15h00 – 15h30: Dr. Luca OTTAVIANO

Università degli Studi dell'Aquila, Italy.

Title: A full set of characterization techniques of surfaces and nanoparticles at the Physics department of the Universtiy of L'Aquila.

Authors: L. Ottaviano, P. De Marco, L. Lozzi, M. Passacantando, V. Grossi, S. Santucci.

15h30 – 15h45: Prof. Dr. Geta CARAC:

Dunărea de Jos University of Galati, Romania.

Title: Electrochemical investigations of the fungi behavior in the disinfectants medium.

Authors: Maricica Stoica, Geta Carac

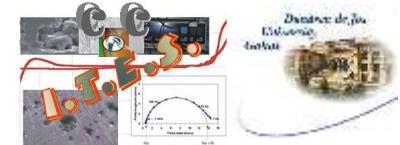
15h45 – 16h15: Invited Speaker: Dr. Fraddy D`SOUSA:

TNO Science and Industry, TNO Laboratory, Nederland.

Title: Electrochemical sensing of Biofilm and MIC:



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16h15 – 16h30: Prof. Dr. Lidia BENEÀ

Dunărea de Jos University of Galati CC-ITES, Romania.

Title: Chemical and structural factors influencing biofilm formation on material surfaces.

16h30 – 16h45: Coffee break

16h45 – 18h15: ROUND TABLE:

Management aspects.

STSM.

Discussions and proposals for new COST Actions
and others Collaborative Projects.

Closing Remarks.

19h00: Dinner

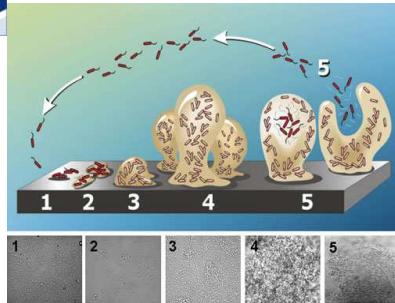
08 of November 2008:

Social: Excursion to Brasov.

Departures.

Prof. Dr. Lidia BENEÀ

COST D33 Vice-chair, WG 01 coordinator⁶



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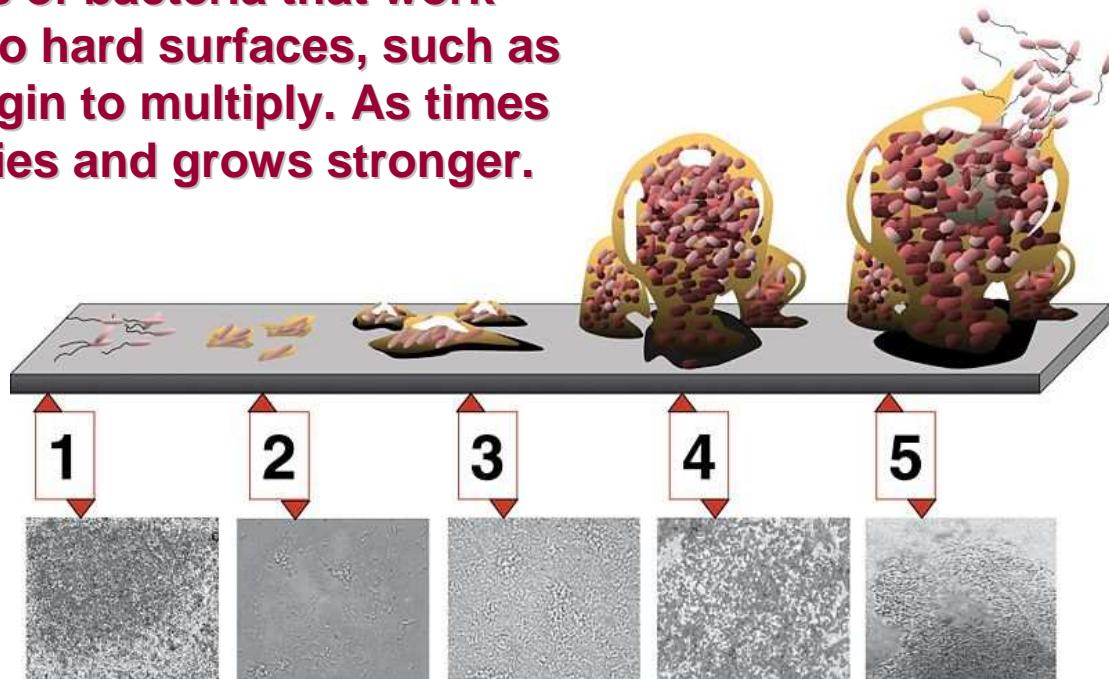
What is Biofilm ?



Biofilm are communities of bacteria that work together. They cling onto hard surfaces, such as water pipe lines, and begin to multiply. As times goes on, biofilm multiplies and grows stronger.

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Biofilm
Biodegradation
Better knowing
for better preventing



5 stages of biofilm development