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To: Dyer, NRR

AUTHOR: Bob Leye

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SUBJECT: The professionals do not refer to fouling as CRUD

ACTION: Appropriate

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**From:** <Bobleyse@aol.com>  
**To:** <Chairman@NRC.gov>  
**Date:** 03/23/2007 12:17 PM  
**Subject:** The Professionals do not Refer to Fouling as CRUD

*Sir:*

Conference Calendar

*Maybe if the NRC stopped referring to fouling as CRUD, it would begin to recognize the nuclear safety implications.*

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 Conference Organization

ECI Conferences General  
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Preliminary Program  
[info@eci.poly.edu](mailto:info@eci.poly.edu)  
 Manuscript Submission

**Preliminary Program****Heat Exchanger Fouling and Cleaning**

July 1-6, 2007  
 Hotel dos Templários  
 Tomar, Portugal

**Conference Chairs**

**Professor Hans Müller-Steinhagen**  
 DLR / University of Stuttgart, Germany

**Professor Paul Watkinson**  
 University of British Columbia, Canada

**Engineering Conferences International**  
 6 MetroTech Center  
 Brooklyn, NY 11201

T: 1-718-260-3743; F: 1-718-260-3754 [info@eci.poly.edu](mailto:info@eci.poly.edu); [www.engconf](http://www.engconf)

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- Turn your cellular telephones to vibrate or off during technical sessions
- Be sure to make any corrections to your name/contact information on the Mas List or confirm that the listing is correct. A corrected copy will be sent to all pai the conference.

**This Preliminary Program as a pdf file**

**Sunday, July 1, 2007**

14:30 – 16:30 Registration

16:30 – 16:40 **Welcome and Opening Address**  
Hans Müller-Steinhagen, Conference Chair

16:40 – 16:50 Frank Schmidt, ECI Technical Liaison

**SESSION 1: OVERVIEW**

**Chair: TBA**

16:50 – 17:15 **The Science of Cleaning of Dairy Fouling Layers**  
I. Wilson  
University of Cambridge

17:15 – 17:40 **Fouling During the Use of Fresh Water as Coolant- The Developm Guide'**  
S. J. Pugh<sup>1</sup>, G. F. Hewitt<sup>2</sup>, H. Müller-Steinhagen<sup>3</sup>

17:40 – 18:05 **A Survey of Alfa Laval's Experience in the Field of Fouling Comb Systems**  
A. Törnqvist  
Parts & Service, Alfa Laval Lund AB

18:05 – 18:30 **Problems in Open Recirculating Power Plant Seawater Cooling S Biocidal Additions and Cooling Water Quality – A Review**  
P. Sriyutha Murthy, S. Syed Jahan, D. Inbakandan and R. Venkatesan

18:30 – 19:30 Welcome Drink (In the lobby by the bar)

19:30 – 21:00 Dinner

21:00 – 22:00 Social Hour

**Monday, July 2, 2007**

07:30 – 08:30 Breakfast Buffet

**SESSION 2: CRUDE OIL AND HYDROCARBON FLUID FOULING**

**Chair: TBA**

08:30 – 08:55 **Crude Oil Fouling in a Pilot-Scale Parallel Tube Apparatus**  
B. Crittenden  
University of Bath

08:55 – 09:20 **Prediction of Localized Coking in Petroleum Processing Fired He**  
 C. B. Panchal  
 Argonne National Laboratory

09:20 – 09:45 **Simplified Crude Oil Fouling Chemistry**  
 C.A. Bennett  
 Heat Transfer Research, Inc.

09:45 – 10:10 **Applying Technology Advancements to Improve Heat Exchanger  
 Environmental Performance in Refinery Crude Preheat Trains**  
 F. Hoeve  
 Shell Global Solutions Int B.V.

10:10 – 10:40 Coffee Break

10:40 – 11:05 **Fouling Mitigation Strategies for the Operation of Refinery Prehe**  
 Edward M. Ishiyama  
 Department of Chemical Engineering

11:05 – 11:30 **Heavy Hydrocarbon Fouling of Heat Exchangers in Propane Dehy  
 Plant**  
 Setu Sikin, Ahamad Zaimi Hassan, and Baharom Che Isa, Petronas, Malaysia

**SESSION 3: FLUIDIZED BED HEAT EXCHANGERS**  
**Chair: TBA**

11:30 – 11:55 **Low Fouling Crude Oil Preheaters**  
 D.G. Klaren  
 KLAREN BV

11:55 – 12:20 **Study of the Online Three-Phase Fluidization to Remove Fouling  
 Tube Wall of Horizontal Shell-Tube Heat Exchangers**  
 Tianlan Yu  
 Research Institute of Mechanical Cleaning, Hunan University of Technology

12:30 – 14:00 Lunch

14:00 – 15:00 *Ad hoc* Sessions and/or Free Time

15:00 – 16:00 **SESSION 4: POSTERS-I**

**Recent Experiences in the Monitoring of Heat Exchangers**  
 G.T. Polley  
 Universidad de Guanajuato

**Crude Oil Fouling – PETRONAS Experience**  
 S. Rafeen, N. A. Manan, F. Mohamed, S. A. Aleem, F. Mustapha, F. Kadir Khan  
 Process Engineers for PETRONAS

**Scale Deposits in Porous Media and their Removal by EDTA Injection**  
 J. Moghadasi, H. Müller-Steinhagen, M. Jamialahmadi and A. Sharif

**Identification of Influential Parameters under Different Fouling Mechanisms Us  
 Models**  
 M.R. Malayeri and H. Müller-Steinhagen

**Simulation of Calcium Phosphate Deposition on Stainless Steel Surfaces: A N  
 Based on Cellular Automata**  
 F. G. Martins, T. Campos, R. Rosmaninho and L. F. Melo  
 University of Porto, Portugal.

**Developing Dynamic Gauging for Studying Deposition and Removal in Duct Flow**  
Tong Gu  
Department of Chemical Engineering, University of Cambridge

**Designing Two-Phase Flow Heat Exchangers for Mitigating Fouling**  
C. B. Panchal  
Argonne National Laboratory

**Corrosion Fouling in a Double Pipe Heat Exchanger**  
E.Y. Mansour  
Al-Nahrain University, Iraq

**Design and Thermal Analysis of Heat Exchanger for Energy Conservation**  
M.T.Naik

**Design of a Vertical Thermosiphon Reboiler - Effect of Fouling**  
M.A. Hakeem

**SESSION 5: FOULING IN COOLING WATER AND THERMAL DESALINATION UNIT**  
Chair: TBA

16:00 – 16:25 **Fouling Propensity of Seawater Characterized by Chemical, Biological Parameters**  
C. B. Panchal  
Argonne National Laboratory

16:25 – 16:50 **Particulate Matter and Iron Oxide Fouling in Plate Heat Exchanger Using Seawater as Coolant**  
P. Sriyutha Murthy, D. Inbakandan, S. Syed Jahan and R. Venkatesan

16:50 – 17:15 **Achievements and Potential of Self-Cleaning Heat Exchangers Using Seawater as A Coolant**  
D.G. Klaren and E.F. de Boer  
KLAREN BV, Hillegom, the Netherlands

17:15 – 17:45 Afternoon Coffee

**SESSION 6: FOULING IN POWER PLANTS**  
Chair: TBA

17:45 – 18:10 **Assessment of the Risk of Fouling of Nuclear Fuel by Dissolved Iodine Corrosion Products**  
Stan J. Klimas  
Atomic Energy of Canada Limited

18:10 – 18:35 **Crystallization Fouling Behaviour of Uranium Oxide Scale in High Temperature Waste Medium**  
J. Addai-Mensah  
Ian Wark Research Institute

18:35 – 19:00 **Free Alkali-Indices for Optimizing the Fuel Mixture in Biomass Combustion**  
Tom Blomberg

19:00 – 19:25 **Investigation of Corrosion Mechanisms of Heat Exchangers in a Waste Incineration Plant by Analysis of the Raw Gas and Variation of Operating Parameters**  
Christian Deuerling

19:25 – 19:50 **Costs due to Utility Fouling in China**  
Xu Z.M.  
Northeast Dianli University

20:00 – 21:30 Dinner

21:30 – 22:30 Social Hour

**Tuesday, July 3, 2007**

07:30 – 08:30 Breakfast Buffet

**SESSION 7: FOULING DURING FOOD PROCESSING**

**Chair: TBA**

**08:30 – 08:55 Flow Cell Studies on Fouling Caused by Protein -Calcium Phosph  
in Turbulent Flow**

R. Rosmaninho and L. F. Melo

**08:55 – 09:20 Fouling a Heat Exchanger When Cooling a Gelifying Fluid under I  
Rate Conditions**

J.F. Maingonnat  
INRA - URGPTA

**09:20 – 09:45 The Fouling of Centritherm Evaporators when Processing Whey**

R. Selwyn Jebson  
Massey University

**09:45 – 10:10 Whey Protein Fouling in a Tubular Heat Exchanger**

Daniela Helena Pelegrine Guimarães  
Universidade de Taubaté

10:10 – 10:40 Coffee Break

**10:40 – 11:05 Interaction of Whey Protein with Modified Stainless Steel Surface**

Shashini S. Premathilaka  
Department of Chemical and Materials Engineering, The University of Auckland

**11:05 – 11:30 The Thermo-Hydrodynamics of a Concentric Ohmic Heater for Pr  
Fluids**

H.J.Tham  
University of Auckland

**11:30 – 11:55 Milk Processing under Fouling Condition**

P K Nema  
College of Horticulture

12:30 – 14:00 Lunch

13:15 – 16:30 Optional tour of Convento de Cristo (Knights Templar castle), Tomar

**SESSION 8: EXPERIMENTAL INVESTIGATION OF FOULING MECHANISMS**

**Chair: TBA**

**17:00 – 17:25 The Study of the Organic Crystallization Fouling Problems**

H. Inokuchi  
Mitsubishi Chemical Corporation

**17:25 – 17:50 The Effect of Operating Variables on the Structure of Biofilms and  
Composition**

T.D. Patel and T.R. Bott

17:50 – 18:15 Afternoon Coffee

**18:15 – 18:40 Identification of Cohesive and Adhesive Control in the Cleaning of Deposits**

Wei Liu

Center for Formulation Engineering, School of Chemical Engineering, University of E

**18:40 – 19:05 Experiments and Modeling of Calcium Sulphate Precipitation under Heating Conditions: Initial Fouling and Bulk Precipitation Rate Studies**

Feridoun Fahiminia, A. Paul Watkinson and Norman Epstein

**19:05 – 19:30 Fouling Mitigation in a CaSO<sub>4</sub> Supersaturated Flow Loop with Sy**

M. Rost

Institute of Thermodynamics and Thermal Engineering

**19:30 – 19:55 A Study of the Accurate Definition and Detecting Method of the Critical Fouling Induction Period**

Shanrangrang Yang

Northeast China Dianli University

20:00 – 21:30 Dinner

21:30 – 22:30 Social Hour

**Wednesday, July 4, 2007**

07:30 – 08:30 Breakfast Buffet

**SESSION 9: EFFECT OF SURFACE MATERIALS****Chair: TBA****08:30 – 08:55 Surface Treatment for the Mitigation of Whey Protein Fouling**

Wolfgang Augustin

Technical University of Braunschweig

**08:55 – 09:20 Fouling Process and Anti-Fouling Technology for Heat Transfer Sur**

C.F. Ma

Beijing University of Technology

**09:20 – 09:45 Aspects of Coating and Surface Preparation of CHE Plates to Mit**

Malin Dunder

Materials and Chemistry Centre

**09:45 – 10:10 Assessment of Surface Treatment on Biofilm Growth Using Dyna**

Phandia Saikwan

University of Cambridge

10:10 – 10:40 Coffee Break

**10:40 – 11:05 Extending the Induction Period of Crystallization Fouling through Coating**

T. Geddert

Technical University of Braunschweig

**11:05 – 11:30 New Approach for the Control of Antifouling in Heat Exchangers**

Lourdes J. Taracido

Universidad de Cádiz

**11:30 – 11:55 Catalytic Methods for Mineral Fouling Mitigation as Physical Water Treatment Technology**

L.D. Tijing

Chonbuk National University

11:55 – 12:20 **Protein Adhesion on Ni-P-PTFE Coated Surfaces**

Q. Zhao, C. Liu, Y. Liu and S. Wang  
University of Dundee, Dundee, UK

12:20 – 12:45 **On Anti-Fouling Characteristics of Heat-Transfer Surface with Na Titania Film in Pool Boiling**

Ming-yan Liu  
School of Chemical Engineering and Technology, Tianjin University

12:45 – 14:00 Lunch

14:00 – 15:00 *Ad hoc* Sessions and/or Free Time

15:00 – 16:00 **SESSION 10: POSTERS-II**

**Sludge: A Computer Program to Model Fouling of Ecirculating Steam Generators**

Stan J. Klimas  
Atomic Energy of Canada Limited

**Effect of Surface Roughness of Carbon Steel on Coking of Crude Oil**

M. Riihimäki  
University of Oulu

**A Theoretical Model of Composite Fouling of Particulate and Crystallization**

Xu Z.M  
Northeast Dianli University

**Automatically Remove Water Fouling Online in Cooling Staves of Blast Furnace**

T. Yu  
Research Institute of Mechanical Cleaning, Hunan University of Technology

**Influence of Different Surface Materials on Nucleation and Crystal Growth in Heat Exchangers**

T. Geddert  
Technical University of Braunschweig

**Modelling of Crystallisation Fouling for Stainless Roughened Surfaces**

A. Herz, M.R. Malayeri and H. Müller-Steinhagen

**Formation of Gum and Deposits in an Oxygenated Naphtha Stream**

Y. Li  
Department of Chemical and Biological Engineering

**Fouling Resistance Modelling of a Vertical Thermosiphon Reboiler**

M. Kamil  
Department of Petroleum Studies

**Research on the Scaling Prediction of Heat Exchanger based on Levenberg-Marquardt Optimization**

Sun lingfang  
Northeast Dianli University

**A Multi-Function Fouling Characteristics Dynamic Simulator Experiment Apparatus Application**

Lijun Chen  
North China Electric Power University

**Based on Electrochemical Method and Digital Image Processing Method to Detect Microorganism in Industrial Cooling Water and Build Predictive Model of Biofouling Formation**

MEN HONG  
Automation Engineering College, Northeast Dianli University

**Study on the Three-Phase Circulating Fluidized Bed Wheat Straw Black Liquor**  
Jia Yuanyuan  
School of Material Science and Chemical Engineering, Tianjin University of Science  
PR China

**SESSION 11: MODELLING**

**Chair: TBA**

16:00 – 16:25 **Modelling Particulate Fouling on Heat Transfer Surfaces: The Infl Boiling on Iron Oxide Deposition**  
F. Cussac and D.H. Lister

16:25 – 16:50 **Simulation of Effect of Fouling on Thermo-Hydraulic Behaviour**  
G.T.Polley  
Universidad de Guanajuato

16:50 – 17:15 **Fouling Mechanism by Molecular Modelling - Condensation Reac Adsorption of Anions and Cations**  
Eini Puhakka  
VTT Technical Research Centre of Finland

17:15 – 17:40 Afternoon Coffee

**SESSION 12: CFD STUDIES**

**Chair: TBA**

17:40 – 18:05 **CFD Studies on Fouling and Ash Deposition in Co-Firing Biomass Novel In-House Code for Particle Tracking Dedicated to CFD Data Post-Process**  
Marco Losurdo  
TU Delft

18:05 – 18:30 **Evaluation of Heat Transfer Boundary Conditions of CFD in the C Heat Exchanger Geometry**  
Pääkkönen Tiina M.  
University of Oulu

18:30 – 18:55 **Prediction and Validation of Wall Shear Stress Distribution at the of a Radial Flow Cell by Computational Fluid Dynamics**  
Jean DETRY

18:55 – 19:20 **Optimal Condition to Reduce Fouling in Helical Baffle Heat Exchanger Modeling**  
M. Omidghane  
Petroleum and Chemical Engineering Department, Sharif University of Technology

20:30 Conference Banquet followed by Social Hour

**Thursday, July 5, 2007**

07:30 – 08:30 Breakfast Buffet

**SESSION 13: DESIGN OF HEAT EXCHANGERS**

**Chair: TBA**

08:30 – 08:55 **Incorporation of a Consideration of Fouling into the Design of Vertical Siphon Re-boilers**  
G.T. Polley and S.J. Pugh

**08:55 – 09:20 Optimization of Flow Direction to Minimize Particulate Fouling Of Exchangers**

M.S. Abd-Elhady  
Department of Mechanical Engineering, Beni-Suef University

**09:20 – 09:45 Effect of Thermal Contact Resistance on the Heat Transfer in Plate Heat Exchangers**

D. Taler University of Science and Technology, Faculty of Mechanical Engineering a  
Department of Power Installations

**SESSION 14: MICRO HEAT EXCHANGERS**

**Chair: TBA**

**09:45 – 10:10 Metallic Micro Heat Exchangers: Properties, Applications and Ion Stability**

Juergen J. Brandner

**10:10 – 10:35 Influence of Different Surface Materials on the Fouling Process in Microstructured Heat Exchanger**

W. Benzinger  
Forschungszentrum Karlsruhe

10:35 – 11:00 Coffee Break

**SESSION 15: FOULING MITIGATION**

**Chair: TBA**

**11:00 – 11:25 Towards an Understanding of how Tube Inserts Mitigate Fouling Exchanger**

B. Aquino  
TOTAL France - Centre de Recherches de Gonfreville

**11:25 – 11:50 HITRAN Wire Matrix Inserts in Fouling Applications**

J. M. Ritchie  
The University of Birmingham

**11:50 – 12:15 Research on the Flat Strip-Insert with Oblique Teeth & Broken Ed Fouling Automatically & Enhance Heat Transfer**

Shaoqing Jiang  
School of Road Engineering, Changsha University of Science & Technology

12:30 – 14:00 Lunch

14:00 – 15:00 *Ad hoc* Sessions and/or Free Time

**SESSION 15: FOULING MITIGATION**

**Chair: TBA**

**15:00 – 15:25 Control of Biofouling in Heat Exchange Systems Using High Volt: Capacitance Based Technology**

Rodrigo FV Romo  
Zeta Corporation

**15:25 – 15:45 Perforated Impingement Baffle (PIB)**

Al-Otaibi, Abdullah M  
Saudi Aramco Company

**15:45 – 16:10 Automatically Remove Salt Fouling in the Heating Chamber of Ev**

Deqi Peng  
Research Institute of Mechanical Cleaning, Hunan University of Technology

16:10 – 16:35 Afternoon Coffee

**SESSION 16: CLEANING OF HEAT EXCHANGERS**

**Chair: TBA**

**16:35 – 17:00 Use of Novel Phase-Change Techniques to Achieve High Shear a Heat Transfer Equipment with Complex and Demanding Topologies**

G L Quarini  
University of Bristol

**17:00 – 17:25 Cleaning and Prevention of Inorganic Deposit in Plate Heat Exch: Pulsating Current**

Antero Pehkonen  
Helsinki University of Technology

**17:25 – 17:55 Cleaning High-Speed Marine Separators with an Environmentally Agent**

Ulf Nylén  
Alfa Laval Tumba AB

**17:55 – 18:20 A Framework to Control Inorganic Fouling**

Markus Riihimäki  
University of Oulu

**18:20 – 18:45 Optimising Heat Exchanger Performance through Customised CI Systems and Methods**

M. Watson and P. Gallon  
Tube Tech International Ltd, UK

**18:45 – 19:10 Automatic Tube Cleaning System (ATCS) installation in Low-Den Polyethylene Grades and Polypropylene homopolymers and Copolymers Prod Studies, O&M Savings, Production Increase and further Opportunities**

Chemi Sugarmen<sup>1</sup>, Shlomo Rubicsek<sup>2</sup>, Orit Barkhorder<sup>2</sup>  
<sup>1</sup> CQM Ltd., Israel, <sup>2</sup> Carmel Olefins Ltd., Israel

**19:10 – 19:35 Method to Descale Heat-Transfer Surfaces and High-Efficient Heat Equipment**

E.P. Maximuk  
Institute of Applied Physics, Academy of Sciences of Moldova

20:00 – 21:30 Dinner

21:30 – 22:30 Social Hour

**Friday, July 6, 2007**

07:30 – 08:30 Breakfast Buffet

**SESSION 17: HEAT EXCHANGER FOULING MONITORING**

**Chair: TBA**

**08:30 – 08:55 Fouling Monitoring and Cleaning Optimisation in the Heat Exch of a Crude Distillation Unit**

A. Heins  
REPSOL YPF

**08:55 – 09:20 Thickness Measurement of Fouling inside Piping or Vessels by U Guided Wave**

Shigeo Iwahashi  
Mitsubishi Chemical Corporation

09:20 – 09:45 **An Electrochemical Method for Measuring Scaling by Calcium Sulphate on a Heated Metal Surface**

Mohamed Mouldi Tlili

Centre de Recherches et Technologies des Eaux

09:45 – 10:10 **Design and Operate a Fouling Monitoring Device**

Luai AL-Hadhrami

King Fahd University of Petroleum and Minerals

10:10 – 10:40 Coffee Break

10:40 – 11:05 **Diagnostic System for Boilers and Furnaces**

Hugo Calisto

Universidade de Aveiro

11:05 – 11:30 **Slag Monitoring System for Combustion Chambers**

Prof. Jan Taler

Cracow University of Technology,

11:30 – 11:55 **Fouling Monitoring using Controlled Nano-Vibrations**

Ana Pereira, Joaquim Mendes, Luis F. Melo

University of Porto, Portugal

11:55 – 12:20 Final Discussion

12:30 – 14:00 Lunch and Conference Adjournment

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