

ILMAC¹¹

Competence in Process and
Laboratory Technology

September 24 - 27, 2013 | Messe Basel | www.ilmac.ch

ILMAC-Forum, Program



By holding different themed events, ILMAC is underlining its leading role as an innovation, information and contact platform for process and laboratory technology. In cooperation with different partners, topics that are of relevance for the sector will be taken up and presented in the form of a series of lectures.

In the morning sessions of the forum the best project of each SCS FH-Award category will be presented. This is a unique opportunity to learn more about successful cooperation between FH and the industry. The Lunch & Learn events are being held around midday and are accompanied by a lunch. As one of the Forum highlights the winners of the Dr. Max Lüthi Award 2013 will be honored. Take the chance and visit their lectures on Friday afternoon.

It would be our pleasure to welcome you as our guest in one of the forum events.

David Spichiger, SCS Executive Director

Tuesday, September 24, 2013

10.00-12.00

ILMAC Media Conference

- General information about ILMAC '13 and the new fair hall. Focus on news and special activities.
- Presentation of the SCS FH-Award winner projects
 - Dr. Rainer Riedl, ZHAW
 - Frau Sina Saxer, FHNW
 - Dr. Ennio Vanoli, EIA Fribourg
- Apéro and possibilities for individual interviews with the prizewinners and the fair management.

Wednesday, September 25, 2013

10.00-11.00

Presentation and Lectures of the SCG FH-Award winners, category 'Molecules for Life Sciences'

- 10.00 Dr. Rainer Riedl, ZHAW
Tackling antibiotic resistance: a joint project of the center for organic and medicinal chemistry ZHAW and the Bioversys GAG
- 10.20 Dr. Lucy Kind, FHNW
Remineralization of sub-surface carious lesions initiated by a self-assembling peptide - Development of a bioceramic tooth model
- 10.40 Prof Ursula Graf-Hausner, ZHAW
Skin bioprinting: an innovative approach to produce standardized skin models on demand

11.15-14.00

Lunch & Learn: Secure pharmaceuticals packaging: Track & Trace, tamper-evident packs

Drugs have a high risk of being counterfeited. That not only has economic consequences - counterfeit drugs also constitute a danger to patients in many cases.

This event highlights both the needs of the pharmaceutical industry, the official requirements and also the technological and organisational options for the secure authentication and tracking of drugs.

> All the Lunch & Learn sessions are held in German.

- 11.15 Begrüssung durch Philippe Dubois, Präsident Schweizerisches Verpackungsinstitut SVI, kurze Einführung ins Thema
- 11.30 Dipl. Ing. Alexander J. Schaefer, Senior Project Engineer, NNE Pharmaplan
Original oder gefälscht? Das ist die Frage! Impulsreferat aus der Praxis
- 11.50 Dipl. Wirtsch. Ing. Gregor Natter, Senior Key Account Manager, Eson Pac AG
Die Initiativen der Regulatoren
- 12.10 Dieter Mössner, Carl Edelman GmbH und Vorsitzender des Normen-ausschusses Verpackungswesen im Deutschen Institut für Normung (DIN)
Tamper Verification Features: Erstöffnungskennzeichen auf Pharmaverpackungen
- 12.30 Stehlunch
- 13.00 Stefan Stehling, Area Sales Manager Seidenader Maschinenbau GmbH
Serialisierung und E-Pedigree für pharmazeutische Verpackungen
- 13.20 Daniel Sanwald Product Manager T&T Robert Bosch GmbH
Der Blick über den Tellerrand: Track&Trace in der Automobil-Zulieferindustrie
- 13.40 Podiumsgespräch: Wo stehen wir bei der nächsten ILMAC, also 2016?
- 14.00 Schlusswort, danach Networking

Thursday, September 26, 2013

10.00-11.00

Presentation and Lectures of the SCG FH-Awards winners, category 'Analytic in the Life Sciences'

- 10.00 Dr. Sina Saxer, FHNW
Printing enzymes for colorimetric assays on paper
- 10.20 Romina Dörig, ZHAW
Development of a high sensitivity label-free waveguide interferometry instrument: A project between the Center for Biochemistry ZHAW and Creoptix GmbH
- 10.40 Prof. Götz Schlotterbeck, FHNW
Synergy of metabolic profiling, pharmacological testing and process engineering enables inauguration of a bamboo pilot plant extraction unit in Fujian, China

11.15-14.00**Lunch & Learn: Hygienic design in the food industry**

The requirements placed on components and systems by the food and pharmaceutical industries are becoming increasingly stringent. This also includes the requirement for a design that is conducive to cleaning and maintenance. The application of a hygienic design is intended to optimise the configuration of the system and processes and reduce the total cost of ownership.

> All the Lunch & Learn sessions are held in German.

- 11.15 Begrüssung durch Dr. Eva Dirlinger
Chefredaktorin 'Lebensmitteltechnologie'
Kurze Einführung ins Thema
- 11.30 Prof. Dr. Rudolf Schmitt, Institut Life Technologies, HES-SO Wallis
Swiss Contact European Hygienic Engineering & Design Group EHEDC
Hygienerisiken in Lebensmittelprozessen: Wo sitzen die Schädlinge?
- 11.50 Dipl. Ing. Ute Wedding, readL.media GmbH
Anforderungen der Behörden und Regulatorien: Verordnungen, Richtlinien, Normen
- 12.10 Matthias Schäfer, GEA Tuchenhausen GmbH, Regional Chair European Hygienic Engineering & Design Group EHEDC
Designanforderungen an verfahrenstechnische Komponenten
- 12.30 Stehlunch
- 13.00 Martin Loehrke, Geschäftsführer, Jürgen Loehrke GmbH
Reinigung und Desinfektion
- 13.20 Umsetzung des Hygienic Designs in der Praxis
- 13.40 Podiumsgespräch: Wo stehen wir bei der nächsten ILMAC, also 2016?
- 14.00 Schlusswort, danach Networking

14.30-16.00 (am SCG FH-Stand)**Walking through Sustainable Chemistry**

- Poster exhibition and expert talks about state of the art technology on sustainable (bio)chemistry in chemical research and production.
- SusChem Switzerland: invitation to the launch of the National Technology Platform (NTP) on Sustainable Chemistry.
- Meet and greet with light refreshments

Friday, September 26, 2013**10.00-11.00****Presentation and Lectures of the SCG FH-Award winners, category 'Chemistry and the Environment'**

- 10.00 Justine Horner, EIA Fribourg
Green synthesis of mono- and disubstituted pyridine via aromatic nucleophilic substitution
- 10.20 Prof. Patrick Shahgaldian, FHNW
A synthetic nanomaterial for virus recognition produced by surface imprinting

- 10.40 Christoph Gasser, FHNW
Nanobiocatalytic depolymerization of lignin for the production of platform phenolic chemicals

11.00-13.30**Mini-Symposium of the Swiss Chemical and Process Engineers (SGVC)**

- 11.00 Introduction, Franziska Morganti, ZHAW/SGVC
- 11.05 Prof. Dr. Philipp Rudolf von Rohr, ETH Zurich
Transportphänomene in Mikro- und Millireaktoren
- 11.30 Anne Kaaden, Ehrfeld Mikrotechnik BTS GmbH
High Performance Flow Systems - Scale-up and Use
- 12.00 Snacks and light refreshments
- 12.30 Dr. Ralf Dümpelmann, Clariant International Ltd
Miniaturisierung und 'High-Throughput' in der industriellen F&E
- 13.00 Discussion round
- 13.30 End of the symposium

14.00-15.00**Ceremony and lectures of the Dr. Max Lüthi Awards 2013**

- 14.00 Prize ceremony
- 14.10 Lecture by Peter Elmiger, ZHAW
Design und Synthese von neuen MMP-Inhibitoren
- 14.35 Lecture by Christophe Laporte, HES-SO Fribourg
Quantification and analysis of ammonium traces by fluorimetry and automatization on FIA
- 15.00 Apéro

All projects of the SCS FH-Award will be presented at the shared stand of the SCS and the Universities of Applied Sciences.



Zürcher Hochschule für Angewandte Wissenschaften



Fachhochschule Nordwestschweiz



Partner of the SCS bar:



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SCS FH-Stand, C84, Hall 1.1

At ILMAC 2013 the SCS will present itself in a completely new way and focus on in-fair activities to closer interact with visitors. In collaboration with the Departments of Chemistry and Life Sciences of the Universities of Applied Sciences, ZHAW, FHNW and HES-SO (Fachhochschulen FH), the SCS awards the best joint research projects of FH and their industrial partners and will present them in an exhibition at the shared stand. All in all 13 projects will be presented in three different categories:

- Molecules for Life Sciences
- Analytic in the Life Sciences
- Chemistry and the Environment



SCS Stand C84, Hall 1.1

Exhibition of the SCS FH-Award projects

Molecules for Life Sciences

Prof Ursula Graf-Hausner, ZHAW

Skin bioprinting: an innovative approach to produce standardized skin models on demand

Dr. Lucy Kind, FHNW

Remineralization of sub-surface carious lesions initiated by a self-assembling peptide - Development of a bioceramic tooth model

Dr. Roger Marti, EIA Fribourg

Click Chemistry for DNA Functionalization

Dr. Rainer Riedl, ZHAW

Tackling antibiotic resistance: a joint project of the center for organic and medicinal chemistry ZHAW and the Bioversys GAG

Analytic in the Life Sciences

Romina Dörig, ZHAW

Development of a high sensitivity label-free wave-guide interferometry instrument: A project between the Center for Biochemistry ZHAW and Creoptix GmbH

Prof. Wolfgang Riedl (FHNW)

Online process control of the de-alcoholisation of beer with inline refractometry

Dr. Sina Saxer, FHNW

Printing enzymes for colorimetric assays on paper

Prof. Götz Schlotterbeck, FHNW

Synergy of metabolic profiling, pharmacological testing and process engineering enables inauguration of a bamboo pilot plant extraction unit in Fujian, China

Prof. Michel Sciotti (FHNW)

Conversion of a radioenzymatic vitamin B6 assay into a rapid colorimetric enzymatic assay

Chemistry and the Environment

Dr. Ennio Vanoli, EIA Fribourg

Green synthesis of mono- and disubstituted pyridine via aromatic nucleophilic substitution

Prof. Patrick Shahgaldian, FHNW

A synthetic nanomaterial for virus recognition produced by surface imprinting

Christoph Gasser, FHNW

Nanobiocatalytic depolymerization of lignin for the production of platform phenolic chemicals

Frau Claudia Niewersch, FHNW

Recycling of phosphorus from sewage sludge ash

Sub-stands

The three Universities of Applied Sciences as well as the SCS and the SGVC will present themselves at the stand. Learn more about the offers and services of the societies and the research and teaching program of the institutes.

SCS Bar

Get a refreshing mineral water at our bar. It will be our pleasure to mix your favorite color.



One of the FH projects developed a new method for de-alcoholization of beer. Rugenbräu, the brewery in the Bernese Oberland, implemented the new approach

and offers you the possibility to compare the non-alcoholic beer with its original brew. Test yourself and taste the two beers in a blind degustation.

Partner for the SCS bar:



Free Entrance to ILMAC

Get your ticket for free by entering the SCS priority code on the ILMAC ticket portal:

URL: www.ilmac.ch/online-ticket

SCS priority code: ILMAC-SCS