



# DECHEMA

Gesellschaft für Chemische Technik  
und Biotechnologie e.V.

## PROGRAMME

27 – 30 September 2015

Evangelische Akademie Tutzing, Lake Starnberg, Germany

### 54<sup>th</sup> Tutzing Symposium

**Sustainable Phyto Extracts –  
Trends, Perspectives and Visions**

[www.dechema.de/tusy54](http://www.dechema.de/tusy54)



## INVITATION

The Subject Division *Plant based Extracts – Products and Processes* of ProcessNet (an initiative of DECHEMA – Society for Chemical Engineering and Biotechnology and VDI-GVC – Division Chemical and Process Engineering of the Association of German Engineers), is pleased to invite you to the 54<sup>th</sup> Tutzing Symposium: Sustainable Phyto Extracts – Trends, Perspectives and Visions, which will take place from 27 – 30 September 2015, Tutzing, Germany.

Plant based extracts, i.e. phyto extracts, are important ingredients in a wide variety of market segments from pharmaceuticals, foods and fragrances to base chemicals. The generation of added value is as wide spread from breeding over processing up to marketing, whereas the products are per definition biodegradable. Parts of this economy are highly regulated and the regulation varies depending on local or regional legislation. Nevertheless, almost all European industries involved are under increasing international competition pressure.

The Symposium is designed to foster exchange and discussion in the areas of sustainable plant production, novel manufacturing technologies, sustainable extraction, distillation and purification processes, application and marketing of extracts. The focus themes are complemented by ethical views, practical “exercises” with products containing or consisting of extracts and a workshop session to discuss and develop innovation strategies.

The Tutzing Symposium will again provide a unique platform and ample time to exchange ideas between leading scientists and decision makers.

The venue is located directly at the shores of Lake Starnberg 40 km south of Munich and is only about 30 (60) minutes away by train from Munich central station (airport). See [www.ev-akademie-tutzing.de/en/](http://www.ev-akademie-tutzing.de/en/) for further details.

We are looking forward to meeting you in Tutzing.

### ACKNOWLEDGEMENTS

DECHEMA would like to thank all members of the scientific committee for the excellent cooperation in compiling the programme and all speakers for their contributions.

### SCIENTIFIC COMMITTEE

<b>Hagels</b> , Dr. Hansjörg	Boehringer Ingelheim Pharma GmbH & Co. KG/D
<b>Kaßing</b> , Dr.-Ing. Markus	Symrise AG, Holzminden/D
<b>Nick</b> , Dr. Leo	DECHEMA e.V., Frankfurt am Main/D
<b>Schäffler</b> , Michael	Cfm Oskar Tropitzsch GmbH, Marktredwitz/D
<b>Schulz</b> , Prof. Dr. Hartwig	Julius-Kühn-Institut für ökologische Chemie, Quedlinburg/D
<b>Strube</b> , Prof. Dr.-Ing. Jochen	TU Clausthal/D
<b>Tegtmeyer</b> , Priv.-Doz. Dr. Martin	Schaper & Brümmer GmbH & Co. KG, Salzgitter/D

## PROGRAMME (subject to change)

**Sunday, 27 September 2015**

16:00 Registration

18:00 Dinner

*Chair: L. Nick, DECHEMA e.V., Frankfurt/D*

20:00 **OPENING AND EVENING LECTURE**  
**Plants extracts and pharmaceutical forms in Late Antiquity and Middle Ages**  
J.G. Mayer, Forschergruppe Klostermedizin GmbH, Würzburg/D

21:00 **Get-together at the parlours of the Castle**  
Drinks and wine on self-paid basis



## Monday, 28 September 2015

08:00 Breakfast

09:00 **Welcome Address**  
M. Held, director of studies at Evangelische Akademie Tutzing/D

## SUSTAINABLE PLANT PRODUCTION

*Chair: H. Hagels, Boehringer Ingelheim Pharma GmbH & Co. KG/D*09:05 **The Jaborandi project in Brazil: social strengthening, diversification and sustainability**  
R. Duarte Preuss, Deutsche Gesellschaft für Internationale Zusammenarbeit GmbH, Brasilia/BR09:25 **Medicinal and aromatic plants in genebank collections – maintenance and research**  
U. Lohwasser, Leibniz Institute of Plant Genetics and Crop Plant Research (IPK), Stadt Seeland/D09:45 **The controlled production of plant material for the phyto industry – chances and risks**  
A. Chaanin, VitaPlant AG, Uttwil/CH10:05 **Discussion**

10:35 Coffee Break

## SUSTAINABLE PLANT PRODUCTION

*Chair: H. Schulz, Julius-Kühn-Institut für ökologische Chemie, Quedlinburg/D*11:05 **Cultivation of medicinal plants, spice plants and energy crops in Germany – current situation and future perspectives**  
B. Honermeier, University of Giessen/D11:25 **In vitro cultivation and bioreactor**  
A. Gerth, VITA 34 AG, Leipzig/D11:45 **LEDs: spectral opportunities to improve plant growth and quality**  
T. Dueck, Wageningen UR Glastuinbouw/NL12:05 **Discussion**

12:35 Lunch

## Monday, 28 September 2015

## EXTRACTION, SUSTAINABLE EXTRACTION / DISTILLATION

*Chair: J. Strube, TU Clausthal/D*14:30 **Domestication strategies of new crops including micropropagation techniques**  
C. Schneider, Institut für Pflanzenkultur e.K., Schnega/D14:50 **From farm to chocolat bar – cocoa (*Theobroma cacao L.*) processing and quality**  
D. Kadow, AUGUST STORCK KG, Berlin/D15:10 **Discussion**

15:40 Coffee Break

16:10 **Green extraction processes and solvents as tools for biorefinery**  
F. Chemat, Université d'Avignon/F16:30 **The production of homoeopathic mother tinctures from fresh plant materials**  
M. Thöle, DHU, Karlsruhe/D16:50 **Discussion**

17:20 Dinner

20:00 **EVENING LECTURE**  
**Plant and ecosystem reactions to increasing atmospheric CO<sub>2</sub>**  
C. Müller, University of Giessen/D21:00 **Get-together at the parlours of the Castle**  
Drinks and wine on self-paid basis

## Tuesday, 29 September 2015

08:00 Breakfast

## APPLICATIONS OF EXTRACTS

*Chair: M. Tegtmeier, Schaper & Brümmer GmbH & Co. KG, Salzgitter/D*09:00 **Use of *in vitro* methods in efficacy testing of cosmetics**  
D. Petersohn, Henkel AG & Co. KGaA, Düsseldorf/D09:20 **CO<sub>2</sub>-extracts – valuable ingredients for cosmetics and dietary supplements**  
D. Gerard, Flavex Naturextrakte GmbH, Rehlingen/D09:40 **Standardized extracts from edible plants**  
P. Morazzoni, Indena S.p.A., Milan/I10:00 **Discussion**

10:30 Coffee Break

## APPLICATIONS OF EXTRACTS

*Chair: M. Kaßing, Symrise AG, Holzminden/D*11:00 **Valuable extractives from Nordic trees**  
T. Holmbom, Separation Research Ltd., Turku/FIN11:20 **Extraction and purification of botanicals in continuous large scale**  
K. van Belleghem, Ajinomoto OmniChem N.V., Wetteren/B11:40 **How to best regulate herbal medicinal products in Europe**  
H. Cranz, Association of the European Self-Medication Industry, Brussels/B12:00 **Discussion**

12:30 Lunch

## Tuesday, 29 September 2015

14:30

## PARALLEL WORKSHOPS

**WORKSHOP 1: Sustainable Plant Production**Chairs: H. Hagels, Boehringer Ingelheim Pharma GmbH & Co. KG/D  
H. Schulz, Julius-Kühn-Institut für ökologische Chemie, Quedlinburg/D**WORKSHOP 2: Extraction, Sustainable Extraction / Distillation**Chairs: M. Kaßing, Symrise AG, Holzminden/D  
J. Strube, TU Clausthal/D**WORKSHOP 3: Applications of Extracts**Chairs: M. Schäffler, Cfm Oskar Tropitzsch GmbH, Marktredwitz/D  
M. Tegtmeier, Schaper & Brümmer GmbH & Co. KG, Salzgitter/D

16:30 Coffee Break

17:00 **The use of herbal plants in spirit industry**  
T. Smaczny, Semper idem Underberg GmbH, Rheinberg/D17:30 **Discussion**

18:00 Dinner and cordial testing

21:00 **Get-together at the parlours of the Castle**  
Drinks and wine on self-paid basis

## WORKSHOPS

The workshops constitute an essential part of the Symposium. The goal is to work out the status of the respective topics and the needs for action in small groups of interdisciplinary experts. An open discussion of the participants with various experiences and views will offer a great chance to disclose significant and trend-setting perspectives.

Moderators will conduct the workshops by following a particular flow chart. They will summarise and present the results to the plenum on Wednesday, 30 September 2015, and the proposals will be discussed there.

**The workshops are obligatory (see online registration).**

## Wednesday, 30 September 2015

08:00 Breakfast

## MARKETING PERSPECTIVES – LABELING, CERTIFICATION

*Chair: M. Schäffler, Cfm Oskar Tropitzsch GmbH, Marktredwitz/D*09:00 **Sustainable and certified vanilla from Madagascar: about values and value creation**  
C. Tenge, Symrise AG, Holzminden/D09:20 **Certification of natural skin care**  
S. Gehrig, WALA Heilmittel GmbH, Boll/D09:40 **Forecasting the market development of phyto extracts**  
J. Grünwald, analyze & realize GmbH, Berlin/D10:00 **Discussion**

10:30 Coffee Break

11:00 **PANEL DISCUSSION**  
**Presentation of the results of the workshops and final discussion****CLOSING REMARKS***Chair: J. Strube, TU Clausthal/D*

12:45 Lunch

14:00 End of the Symposion

## SPEAKERS AND CHAIRS

**Bellegheem**, Kristof van  
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ökologische Chemie  
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Schaper & Brümmer GmbH &  
Co. KG  
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38259 Salzgitter  
Germany**Tenge**, Clemens  
Symrise AG  
Global Competence  
Mühlenfeldstr. 1  
37603 Holzminden  
Germany**Thöle**, Dr. Marc  
Deutsche Homöopathie Union  
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76227 Karlsruhe  
Germany

## GENERAL INFORMATION

### REGISTRATION FEE\*)

Participant from:	Member**	Non-member
Academia	365 €	380 €
Industry	615 €	630 €

\*) No VAT requested according to § 4.22 UStG

\*\*) Personal DECHEMA-member, VDI-GVC-member and EFC/EFCE passport holder, status proof required

The conference fee includes the list of participants and the book of abstracts.

### FEE FOR ACCOMMODATION AND MEALS

Accommodation at the Evangelische Akademie is **only possible for the whole duration of the Symposium.**

The costs of accommodation and full board at the Evangelische Akademie from 27 – 30 September 2015 are **450 €** (incl. VAT). All rooms are equipped with shower, toilet and telephone.

As the number of rooms is limited, some participants will be booked into hotels by congress secretariat in the vicinity of the Evangelische Akademie (room rates approx. 60 € to 90 € per night incl. breakfast). In this case, the participants will pay accommodation and breakfast at the hotel. All other meals and drinks can be obtained at the Evangelische Akademie for **160 €** (incl. 19% VAT) for the whole duration of the Symposium.

### REGISTRATION

Please register online at: [www.dechema.de/tusy54](http://www.dechema.de/tusy54).

The capacity of the auditorium of the Evangelische Akademie is limited to 100 participants. In case of more than 100 registrations, limitations will be made according to the date of registration or according to the number of registrations made by a particular organisation.

Registration will be open as long as free capacity is available. Confirmation of registration will be sent on receipt of the online registration. Your name badge, the list of participants and the book of abstracts will be available upon arrival in Tutzing.

Due to organisational reasons we can only accept online registration and payment by credit card or EC card. We ask you for your understanding.

**Please note:** Publication deadline for the list of participants is **1 September 2015**. There is no guarantee that registrations received thereafter will appear in the list.

## GENERAL INFORMATION

### CANCELLATION AND REFUNDS

30 € administrative costs will be charged for cancellations made before **14 August 2015**. Thereafter 80% of the registration fee will be invoiced, however, the book of abstracts will be sent. Cancellation must be made in writing (letter, fax or e-mail).

Cancellations for meals and accommodation at the Evangelische Akademie can only be accepted by **14 August 2015**. After that date, the full amount will be charged if reserved rooms cannot be let to another participant.

If the event is cancelled by DECHEMA, the full fee will be refunded. Further claims for compensation are excluded.

### VENUE

Auditorium of the Evangelische Akademie Schloss Tutzing  
Schlossstrasse 2-4  
82324 Tutzing  
Germany

Phone: ++49 (0)8158 251-0 (conference office: extension -231)

Fax: ++49 (0)8158 251-509

Internet: [www.ev-akademie-tutzing.de](http://www.ev-akademie-tutzing.de)

The conference office at the Evangelische Akademie is open from 27 September 2015 at 4 p.m. and during the whole Symposium.

### ORGANISER AND CONTACT

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## HOW TO GET TO TUTZING

### By car:

From Munich via motorway (A 95) direction Garmisch-Partenkirchen, exit Starnberg, through Starnberg along the lake to Tutzing.

### By train:

From Munich main station (Hauptbahnhof) to Tutzing: every 30 min, direction Garmisch, travelling time approx. 30 min.

Benefit from the joint offer of DECHEMA and Deutsche Bahn and travel comfortably and safely to the Symposium. A 2<sup>nd</sup> class return ticket to Tutzing costs 99 €; a 1<sup>st</sup> class return ticket costs 159 €.

Detailed information can be obtained at [www.dechema.de/en/bahn](http://www.dechema.de/en/bahn).

### By airplane:

The nearest airport to Tutzing is Munich, airport „Franz-Josef-Strauß“. From there take suburban train S1 to Laim and change there to the S6 to Tutzing (travelling time approx. 1 h 30 min).

