

**1<sup>st</sup> Joint Meeting**



**14<sup>th</sup> International Congress  
for Bioengineering and the Skin**

**and**



**8<sup>th</sup> Congress of the International  
Society for Skin Imaging**

**Hamburg, May 21-24, 2003**



**Program**



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# INVITATION

DEAR COLLEAGUES,

it is my great pleasure to invite you on behalf of the Organizing Committee to this first joint meeting of two scientific societies focussing on measurement and visualization of skin function, structure and physiology: the International Society for Bioengineering and the Skin (ISBS) and the International Society for Skin Imaging (ISSI), to be held in Hamburg, May 21-24, 2003.

ISBS and ISSI focus on neighbouring research topics and share since 1995 a successful common official journal: Skin Research and Technology.

This first joint meeting will truly be very stimulating by this interaction and will certainly further increase attention to the fascinating and rapidly developing field of skin bioengineering and imaging.

It is the aim of this meeting to stimulate discussion between clinicians, engineers, basic and industrial researchers, to exchange ideas and to make and renew friendships.

Hamburg is truly one of the most beautiful cities in Germany. Although still unknown to many foreign tourists Hamburg has to offer an unparalleled, exciting mixture of world city culture, harbour flair, Alster romance and townscape full of parks and tree-lined boulevards.

The CCH Convention Center is located in the heart of the city, allowing you to explore many of the city attractions by foot.

We look forward to your participating in this exciting event.

Klaus-P. Wilhelm  
Chairman of the Organizing Committee



## GREETING WORD

LADIES AND GENTLEMEN,

as the Minister for Science and Research and on behalf of the government it is my great pleasure to welcome you all to the Free and Hanseatic City of Hamburg. We feel proud and honored to host this international conference. I am sure that Hamburg will present itself at its best and will contribute our experience as an international science and business centre.

Within the next four days scientists, physicians and engineers will engage in an exchange on the latest findings in the field of skin bioengineering and imaging. The topics bioengineering, medical technology and basic and applied medical research are also important for the city of Hamburg. Our scientific and economic policy aims at strengthening our know-how in the field of life sciences and thus contributing further to our development as a competitive and successful life science centre in Europe. The perspectives for this are excellent. We have with a sound mixture of medical- and biotech-companies, excellent medical and biological research institutes and well known hospitals such as the University Hospital Eppendorf the right environment for this development. It is of special concern to me as the Minister for Science and Research to further the already existing potential of Hamburg by supporting international meetings like this to bring so many internationally renowned experts to our city.

I would like to express my gratitude to Prof. Dr. Klaus-P. Wilhelm for organising this meeting and wish you all fruitful discussions, exciting scientific insights, and interesting new contacts. But I hope that you will have here not only successful conference days but will also take home something of the spirit of our beautiful city.



Jörg Dräger

Sincerely yours

Jörg Dräger, Ph.D.  
Minister for Science and Research  
of the Free and Hanseatic City of Hamburg



# CONTACTS

## Venue

CCH Congress Centrum Hamburg  
Am Dammtor/Marseiller Straße  
20355 Hamburg

## Organizing Committee

Klaus-P. Wilhelm, Schenefeld/Hamburg (D) (Chairman)  
Peter Elsner, Jena (D)  
Stephan El Gammal, Freudenberg (D)  
Howard I. Maibach, San Francisco (USA)  
Gert Nilsson, Linköping (S)  
Hubert Pehamberger, Wien (A)  
Randy Wickett, Cincinnati (USA)  
Walter Wigger-Alberti, Schenefeld/Hamburg (D)

## Scientific Committee

Peter Elsner, Jena (D) (Chairman ISBS)  
Stephan El Gammal, Freudenberg (D) (Chairman ISSI)  
Bernard Gabard, Münchenstein (CH)  
Philippe Humbert, Besançon (F)  
Jean-Luc Lévêque, Paris (F)  
Jørgen Serup, Linköping (S)

## Scientific Advisory Board

Members of the Board of the International Society for Bioengineering and the Board of the International Society for Skin Imaging

## Contact

Professor Dr. Klaus-P. Wilhelm  
proDERM  
Institute for Applied Dermatological Research GmbH  
Industriestr. 1  
22869 Schenefeld/Hamburg  
Phone: ++49 (0) 40-83 93-58 17  
Fax: ++49 (0)40-83 93-58 39  
E-Mail: [KPW@proderm.de](mailto:KPW@proderm.de)

## CONTACTS

### Administration Secretariat (before/after the congress)

AKM Congress Service GmbH  
Hauptstr. 18  
79576 Weil am Rhein/  
Germany  
Phone: ++49 (0) 7621-98 33 0  
Fax: ++49 (0) 7621-78 714  
E-Mail: [akmweil@  
akmcongress.com](mailto:akmweil@akmcongress.com)

### Congress Office (during congress)

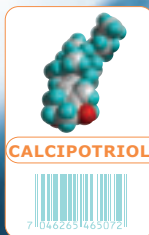
1<sup>st</sup> Joint Meeting  
14<sup>th</sup> International Congress  
for Bioengineering and the  
Skin and  
8<sup>th</sup> Congress of the  
International Society for Skin  
Imaging  
c/o AKM Congress Service  
GmbH  
CCH Congress Centrum  
Hamburg  
Am Dammtor/  
Marseiller Straße  
20355 Hamburg  
Phone: ++49(0)40-3569-4230  
Fax: ++49(0)40-3569-3530

### Language

English (without translation)

### Internet

[www.akm.ch/ISBS/ISSI2003](http://www.akm.ch/ISBS/ISSI2003)



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# PROGRAM AT A GLANCE

WEDNESDAY, MAY 21

Room 5

Room 9/10

Room 8

12:00-12:30

12:30-13:00

13:00-13:30

13:30-14:00

14:00-14:30

14:30-15:00

15:00-15:30

15:30-16:00

16:00-16:30

16:30-17:00

17:00-17:30

17:30-18:00

18:00-18:30

18:30-19:00

19:00-19:30

19:30-20:00

20:00-20:30

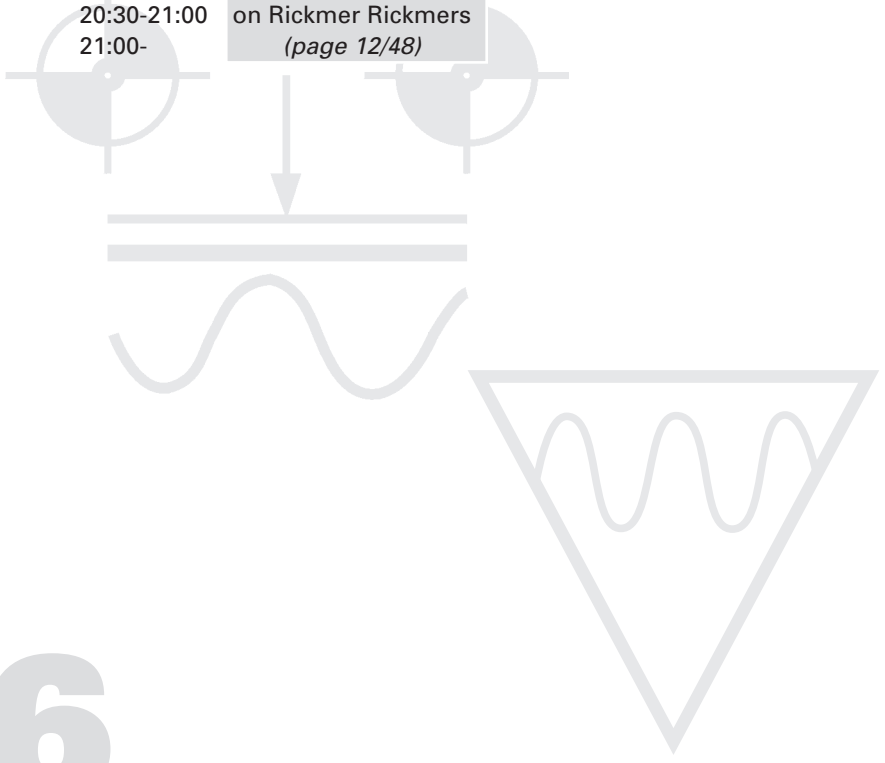
20:30-21:00

21:00-

**Satellite  
Symposium**  
Optiscan Pty. Ltd.  
*(page 10)*

**Opening Ceremony  
Opening Lecture**  
*(page 12)*

**Welcome Reception**  
on Rickmer Rickmers  
*(page 12/48)*

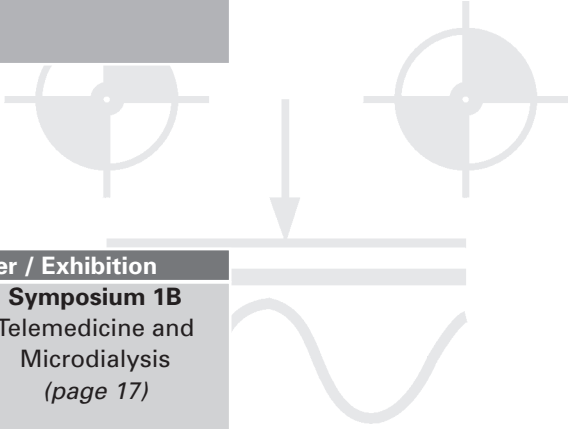




# PROGRAM AT A GLANCE

THURSDAY, MAY 22

	Room 6	Room 5
07:30-08:00		
08:00-08:30		
08:30-08:45		
08:45-09:05	<b>Plenary I</b>	
09:05-09:25	Optical Coherence	
09:25-09:40	Tomography and	
09:40-10:00	High Resolution	
10:00-10:15	Ultrasound	
10:15-10:30	<i>(page 13)</i>	
10:30-11:00	<b>Coffee-Break / Poster / Exhibition</b>	
11:00-11:20	<b>Plenary II</b>	
11:20-11:40	Skin	
11:40-11:55	Bioengineering	
11:55-12:10	New Developments I	
12:10-12:25	<i>(page 14)</i>	
12:30-13:00	<b>Poster / Exhibition</b>	
13:00-13:30		
13:30-14:00		
14:00-14:20	<b>Plenary III</b>	
14:20-14:40	In Vivo Confocal	
14:40-15:00	Microscopy and	
15:00-15:15	Skin Imaging	
15:15-15:30	<i>(page 15)</i>	
15:30-15:45		
15:45-16:15	<b>Coffee-Break / Poster / Exhibition</b>	
16:15-16:35	<b>Symposium 1A</b>	<b>Symposium 1B</b>
16:35-16:50	Friction & Elasticity	Telemedicine and
16:50-17:05	<i>(page 16)</i>	Microdialysis
17:05-17:20		<i>(page 17)</i>
17:20-17:45		
17:45-18:00	Business Meeting	
18:00-18:30	of ISBS and ISSI	
18:30-19:00	<i>(page 17)</i>	
19:00-19:30		



# PROGRAM AT A GLANCE

FRIDAY, MAY 23

	Room 6	Room 5	In the Poster Area
07:30-08:00			
08:00-08:30			
08:30-08:45	<b>Plenary IV</b>		
08:45-09:05	Skin Bioengineering		
09:05-09:25	New Developments		
09:25-09:40	II		
09:40-10:00	<i>(page 18)</i>		
10:00-10:15	<b>Coffee-Break / Poster / Exhibition</b>		
10:15-10:30			
10:30-11:00	<b>Symposium 2A</b>	<b>Symposium 2B</b>	
11:00-11:20	Imaging of Skin	Claims Support	
11:20-11:40	Malignoma and	in Cosmetology	
11:40-11:55	Inflammation	and Pharmacology	
11:55-12:00	<i>(page 19)</i>	<i>(page 20)</i>	
12:00-12:30	<b>Poster / Exhibition</b>		
12:30-13:00	<b>Lunch-Symposium</b>		
13:00-13:30	GF-Messtechnik		
13:30-14:00	GmbH		
14:00-14:30	<i>(page 21)</i>		
14:30-14:40			<b>Plenary V</b>
14:40-15:00			Poster Viewing
15:00-15:15			<i>(page 22)</i>
15:15-15:30			
15:30-15:45		<b>Poster Discussion</b>	
15:45-16:15		and Poster Prizes	
16:15-16:35	<b>Coffee-Break / Poster / Exhibition</b>		
16:35-16:45			
16:45-17:05	<b>Symposium 3A</b>	<b>Symposium 3B</b>	
17:05-17:20	Epiluminescence	New Bioengineering	
17:20-17:45	Microscopy & Multi-	Techniques	
17:45-18:00	modal Skin Imaging	<i>(page 24)</i>	
18:00-18:05	<i>(page 23)</i>		
18:05-18:30			
18:30-19:30			
19:30-20:00			
20:00-20:30	<b>Congress Dinner</b>		
20:30-21:00	at Zippelhaus		
21:00-	<i>(page 24)</i>		

## PROGRAM AT A GLANCE

SATURDAY, MAY 24

### Room 6

07:30-08:00

08:00-08:30

08:30-09:00

09:00-09:20

#### Plenary VI

09:20-09:40 MRI and Skin Surface

Imaging

*(page 25)*

09:40-09:55

09:55-10:10

10:10-10:25

10:25-10:40

#### Coffee-Break

10:40-11:15

#### Plenary VII

11:15-11:30

Ultrasound and

11:30-12:00

Functional Imaging

*(page 26)*

12:00-12:30

12:30-12:45

#### Closing

12:45-13:00

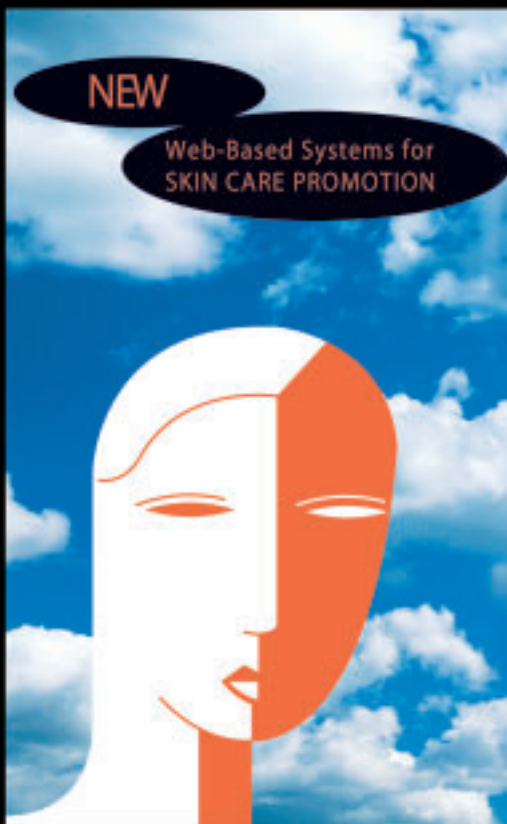
#### Ceremony

13:00-13:30

*(page 26)*

13:30-13:45

13:45-14:00



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# PROGRAM

WEDNESDAY, MAY 21, 2003

Room 9/10

12:30 - 17:30

## Satellite Symposium



## CONFOCAL MICROSCOPY IN-VIVO IMAGING OF SKIN

### Latest Advances in:

### Technology, Techniques & Applications

*Scientific Convener: Professor Jørgen Serup, Linköping University Hospital, Linköping, Sweden*

*Meeting Chairs: Professor Jørgen Serup; Dr. Salvador Gonzalez, Massachusetts General Hospital*

### CLINICAL PRESENTATIONS

#### Introduction to Fluorescent and Reflective in-vivo confocal microscopic imaging

*M. Rajadhyaksha (USA)*

#### Recent achievements in the field of fibre-optic Live Micro Imaging (LMI)

*S. Thomas (Australia)*

#### Confocal microscopy imaging of normal skin

*L. Swindle (USA)*

#### Correlation of confocal microscopy imaging and histology

*K. Busam (USA)*

#### Clinical applications of confocal microscopy

*S. Gonzalez (USA)*

#### Confocal microscopy of pre-malignant and malignant skin diseases

*A. Halpern (USA)*

#### Live Micro Imaging of the cutaneous vasculature

*K. Sauermann (Germany)*

#### Confocal microscopy of bullous skin diseases

*M. Fleming (USA)*

# PROGRAM

## PRODUCT TESTING & BASIC RESEARCH APPLICATIONS

**In-vivo confocal microscopy for monitoring the effect of anti-neoplastic therapy of BCC**

*A. Torres (USA)*

**In-vivo confocal microscopy for testing of cosmetic products**

*M. Takahashi (Japan)*

**Application of in-vivo laser scanning microscopy in skin physiology**

*J. Ladermann (Germany)*

**The use of live micro imaging to monitor skin barrier function**

*R. Isseroff (USA)*

**Confocal microscopy as an imaging tool in animal experimentation**

*S. Watkins (USA)*

**Conclusion & inauguration of the in-vivo confocal microscopy of skin interest group under the patronage of the ISBS.**

*J. Serup (Sweden)*



# PROGRAM

WEDNESDAY, MAY 21, 2003

Room 8

18:00 - 19:30

## Opening Ceremony

Chair: *S. El Gammal, Freudenberg, D; P. Elsner, Jena, D;  
K.-P. Wilhelm, Hamburg, D*

18:00 Opening Ceremony

18:15 **Opening lecture:  $p < 0.05!$  - So, what?**

*H.-H. Dubben, University of Hamburg (Hamburg, D)*

1

19:30 Shuttle bus to "Rickmer Rickmers" available (one way)

20:00 **Welcome Reception**

**Museum Ship „Rickmer Rickmers“**

(see page 48)



# PROGRAM

THURSDAY, MAY 22, 2003

Room 6

08:45 - 10:30

## Plenary I

### Optical coherence tomography & high resolution ultrasound

*Chair: A. Knüttel, Mannheim, D; H. Ermert, Bochum, D*

- 08:45 High resolution OCT and hydration imaging of the skin** 2  
*A. Knüttel, S. Bonev, A. Höpfner, ISIS optronics GmbH (Mannheim, D)*
- 09:05 OCT of skin tumors and inflammatory diseases** 3  
*J. Welzel, C. Winter, University of Lübeck, 4optics AG (Lübeck, D)*
- 09:25 High-resolution sonography of the epidermis** 4  
*S. El Gammal<sup>1</sup>, K. Kaspar<sup>1</sup>, M. Vogt<sup>2</sup>, H. Ermert<sup>2</sup>*  
<sup>1</sup>*Krankenhaus Bethesda (Freudenberg, D)*  
<sup>2</sup>*Institut für Hochfrequenztechnik Ruhr-Universität (Bochum, D)*
- 09:45 A high frequency ultrasound based system for spatially resolved imaging of skin elasticity in vivo** 5  
*M. Vogt<sup>1</sup>, S. Scharenberg<sup>2</sup>, R. Scharenberg<sup>2</sup>, K. Hoffmann<sup>3</sup>, P. Altmeyer<sup>3</sup>, H. Ermert<sup>1</sup>*  
<sup>1</sup>*Ruhr-University (Bochum, D)*  
<sup>2</sup>*taberna pro medicum GmbH (Lüneburg, D)*  
<sup>3</sup>*Dermatologic University Hospital (Bochum, D)*
- 10:00 Ultrasound imaging and optical coherence tomography of skin: a comparison** 6  
*A.M. Nuijs, S. Neerken, G.W. Lucassen, Philips Research, Personal Care Institute (Eindhoven, NL)*
- 10:15 The use of fluorescence in-vivo confocal imaging in the evaluation of transdermal delivery methods** 7  
*S. Thomas, E. Murr, P. Anikijenko, A. Reese, P. Delaney, Optiscan Pty Ltd (Notting Hill, AUS)*
- 10:30 Coffee break, visit exhibition and posters

# PROGRAM

THURSDAY, MAY 22, 2003

Room 6

11:00 - 12:25

## Plenary II

### Skin bioengineering: New developments I

Chair: G. Pièrard, Liège, B; R. Wickett, Cincinnati, USA

- |       |   |    |
|-------|---|----|
| 11:00 | <b>Guidelines in skin bioengineering: are they useful, are they used?</b>   | 8  |
|       | <i>G. Pièrard, University Medical Center (Liège, B)</i>   |    |
| 11:20 | <b>The follicular cast - new techniques</b>   | 9  |
|       | <i>A. Thielitz, H. Gollnick, Department of Dermatology and Venereology (Magdeburg, D)</i>   |    |
| 11:40 | <b>Assessment of permeability barrier function measuring trans-epidermal water loss: comparing 3 closed-loop systems and 4 open-loop systems in vivo and in vitro</b> | 10 |
|       | <i>J.W. Fluhr<sup>1</sup>, L. Bankova<sup>1</sup>, P.M. Elias<sup>2</sup>, K.R. Feingold<sup>2</sup></i>  |    |
|       | <i><sup>1</sup> Friedrich-Schiller-University (Jena, D)</i>   |    |
|       | <i><sup>2</sup> UCSF (San Francisco, USA)</i>   |    |
| 11:55 | <b>Analysis of water in human skin and nails using a portable near-infrared spectrometer</b>  | 11 |
|       | <i>M. Egawa<sup>1</sup>, T. Fukuhara<sup>1</sup>, T. Hirao<sup>1</sup>, M. Takahashi<sup>1</sup>, Y. Ozaki<sup>2</sup></i>  |    |
|       | <i><sup>1</sup> Shiseido (Yokohama-shi, JP)</i>   |    |
|       | <i><sup>2</sup> Kwansei Gakuin University (Sanda-shi, JP)</i>   |    |
| 12:10 | <b>Osmotic effects in human skin</b>  | 12 |
|       | <i>P.M. Vankemenade<sup>1</sup>, M.M.J. Houben<sup>2</sup></i>  |    |
|       | <i><sup>1</sup> Personal Care Institute, Philips Research (Eindhoven, NL)</i>   |    |
|       | <i><sup>2</sup> Eindhoven University of Technology (Eindhoven, NL)</i>  |    |



# PROGRAM

THURSDAY, MAY 22, 2003

Room 6

14:00 - 15:45

## Plenary III

### In vivo confocal microscopy & skin imaging

*Chair: S. Gonzalez, Boston, USA; J. Fluhr, Jena, D;*

*C. Edwards, Cardiff, UK*

- |       |  |    |
|-------|--|----|
| 14:00 | <b>Confocal microscopy for the evaluation of the skin disorders</b>  | 13 |
|       | <i>S. Gonzalez, Wellman Labs, MGH, Harvard Medical School (Boston, USA)</i>  |    |
| 14:20 | <b>High resolution laser speckle perfusion imaging</b>   | 14 |
|       | <i>K.R. Forrester<sup>1</sup>, J. Tulip<sup>2</sup>, C. Stewart<sup>1</sup>, C. Leonard<sup>1</sup>, R.C. Bray<sup>1</sup></i>                           |    |
|       | <i><sup>1</sup> University Of Calgary (Calgary, CAN)</i>   |    |
|       | <i><sup>2</sup> University Of Alberta (Edmonton, CAN)</i>  |    |
| 14:40 | <b>Applications of multiphoton microscopes in skin imaging</b>   | 15 |
|       | <i>K. König, Friedrich Schiller University (Jena, D)</i>   |    |
| 15:00 | <b>In vivo-subsurface deformation measurements in human epidermis</b>  | 16 |
|       | <i>F.M. Hendriks<sup>1</sup>, J.A.M. Schuurman<sup>1</sup>, D. Brokken<sup>2</sup>, C.W.J. Oomens<sup>1</sup>, F.P.T. Baaijens<sup>1</sup></i>           |    |
|       | <i><sup>1</sup> Eindhoven University of Technology,</i>  |    |
|       | <i><sup>2</sup> Philips Research Laboratories (Eindhoven, NL)</i>  |    |
| 15:15 | <b>Fluorescence confocal microscopy of normal human skin and skin lesions in vivo</b>  | 17 |
|       | <i>L. Swindle<sup>1</sup>, M. Freeman<sup>1</sup>, B. Jones<sup>2</sup>, S. Thomas<sup>3</sup></i>   |    |
|       | <i><sup>1</sup> Gold Coast Hospital (Gold Coast, AUS)</i>  |    |
|       | <i><sup>2</sup> The Skin Centre (Benowa, USA)</i>  |    |
|       | <i><sup>3</sup> Optiscan Pty Ltd (Notting Hill, AUS)</i>   |    |
| 15:30 | <b>Photographic scales documenting features of skin aging based on digital images</b>  | 18 |
|       | <i>F. Morizot<sup>1</sup>, S. Guehenneux<sup>1</sup>, C. Guinot<sup>1</sup>, E. Mauger<sup>1</sup>, M. Binder<sup>2</sup>, E. Tschachler<sup>1</sup></i> |    |
|       | <i><sup>1</sup> C.E.R.I.E.S. (Neuilly Sur Seine, F)</i>  |    |
|       | <i><sup>2</sup> University of Vienna (Vienna, A)</i>   |    |
| 15:45 | Coffee break, visit exhibition and posters   |    |

# PROGRAM

THURSDAY, MAY 22, 2003

Room 6

16:15 - 17:45

## Symposium 1 A

### Friction & elasticity

*Chair: R. Marks, Cardiff, UK; P. Humbert, Besançon, F*

- 16:15 The frictional feel analyzer** **19**  
*M. Takahashi, M. Egawa, T. Hirao, Shiseido Research Center (Yokohama, JP)*
- 16:35 Finger perception metrology. Correlation between friction force and acoustic emission** **20**  
*F. Flament<sup>1</sup>, R. Vargiolu<sup>1</sup>, A. Mavon<sup>2</sup>, P. Humbert<sup>3</sup>, H. Zahouani<sup>1</sup>*  
*<sup>1</sup>Ecole Centrale de Lyon (Ecully, F)*  
*<sup>2</sup>Laboratoires Pierre Fabre (Toulouse, F)*  
*<sup>3</sup>Laboratoire d'Ingénierie Cutanée (Besançon, F)*
- 16:50 Miniaturized probe for in vivo assessment of stratum corneum biomechanical properties by microtorsion** **21**  
*V. Gillon<sup>1</sup>, G. Perié<sup>1</sup>, W. Seipel<sup>2</sup>, G. Pauly<sup>1</sup>*  
*<sup>1</sup>Laboratoires Sérobiologiques, Division de Cognis (Pulnoy, F)*  
*<sup>2</sup>Care Chemicals, Cognis Deutschland GmbH & Co.KG (Düsseldorf, D)*
- 17:05 Study of the mechanical properties of human skin using the shear wave propagation method** **22**  
*A. Barel, R. Lambrecht, P. Clarys, Vrije Universiteit Brussel (Brussels, B)*
- 17:20 Transient sonoelastography: a new method for measuring skin mechanical properties** **23**  
*T. Baldeweck<sup>1</sup>, J.L. Génisson<sup>2</sup>, C. Cornillon<sup>1</sup>, M. Tanter<sup>2</sup>, S. Catheline<sup>2</sup>, M. Fink<sup>2</sup>, B. Querleux<sup>1</sup>*  
*<sup>1</sup>L'Oréal Recherche (Aulnay-sous-bois, F)*  
*<sup>2</sup>ESPCI-LOA, UMR CNRS 1503 (Paris, F)*

# PROGRAM

THURSDAY, MAY 22, 2003

Room 5

16:15 - 17:45

## Symposium 1 B

### Telemedicine & microdialysis

*Chair: M. Fleming, Milwaukee, USA; E. Benfeldt, Copenhagen, DK*

- |              |   |               |
|--------------|---|---------------|
| <b>16:15</b> | <b>Mobile, multimedia computing for improved clinicopathologic correlation in dermatopathology</b><br><i>M. Fleming, Medical College of Wisconsin (Milwaukee, USA)</i>  | <b>24</b>     |
| <b>16:30</b> | <b>Tele-education and storage of multimedia-data</b><br><i>J. Tittelbach, U. Metzner, J. Präßler, P. Elsner, Friedrich Schiller University Hospital (Jena, D)</i>   | <b>25</b>     |
| <b>16:45</b> | <b>Microdialysis: an update</b><br><i>E. Benfeldt, University of Copenhagen Department of Dermatology (Copenhagen, DK)</i>  | <b>26</b>     |
| <b>17:05</b> | <b>A new in vitro microdialysis technique for the assessment of percutaneous absorption of hazardous substances at the workplace</b><br><i>G. Korinth<sup>1</sup>, T. Göen<sup>2</sup>, K.H. Schaller<sup>1</sup>, H. Drexler<sup>1</sup></i><br><i><sup>1</sup> University of Erlangen-Nuremberg (Erlangen D)</i><br><i><sup>2</sup> University of Technology (Aachen, D)</i>  | <b>27</b>     |
| <b>17:20</b> | <b>Development and usage of an open internet platform for distributed image processing applied to dermoscopy</b><br><i>J. Guillod<sup>1</sup>, F. Decaillet<sup>2</sup>, P. Schmid-Saugeon<sup>1</sup>, R. Panizzon<sup>1</sup>, M. Kunt<sup>2</sup>, J.P. Thiran<sup>2</sup></i><br><i><sup>1</sup> University Hospital (Lausanne, CH)</i><br><i><sup>2</sup> Swiss Federal Institute of Technology (Lausanne, CH)</i> | <b>28</b>     |
| <b>17:45</b> | <b>Business Meeting of ISBS and ISSI</b>  | <b>Room 6</b> |

# PROGRAM

FRIDAY, MAY 23, 2003

Room 6

08:30 - 10:00

## Plenary IV

### Skin bioengineering: New developments II

*Chair: S. Dikstein, Jerusalem, IL; D. Miller, Dallas, USA*

- |       |  |    |
|-------|--|----|
| 08:30 | <b>Use and misuse of bioengineering techniques in dermatology</b><br><i>H.I. Maibach, University of California Medical School<br/>(San Francisco, USA)</i>   | 29 |
| 08:55 | <b>Quality management in the skin bioengineering laboratory:<br/>a strategic approach</b><br><i>K.P. Wilhelm, proDERM GmbH (Schenefeld, D)</i>   | 30 |
| 09:15 | <b>The stratum corneum spy</b><br><i>R. Marks, P. Dykes, Cutest Systems Ltd (Cardiff, UK)</i>  | 31 |
| 09:30 | <b>The new technique and device for the measurement of skin<br/>elasticity by the non-contact compressed air type skin analyzer<br/>(CASA)</b><br><i>O. Osanai, T. Fujimura, T. Tsugita, S. Akasaki, S. Moriwaki, K. Hori,<br/>Y. Takema, Kao Corporation (Tokyo, Tochigi, JP)</i> | 32 |
| 09:45 | <b>Assessment of attractive and adhesive properties of skin surface<br/>film by contact mechanics approach</b><br><i>H. Zahouani, C. Pailler, R. Vargiolu, Ecole Centrale de Lyon (Ecully, F)</i>  | 33 |
| 10:00 | Coffee break, visit exhibition and posters   |    |

# PROGRAM

FRIDAY, MAY 23, 2003

Room 6

10:30 - 12:00

## Symposium 2 A

### Imaging of skin malignoma & inflammation

*Chair: K. Hoffmann, Bochum, D; H. Pehamberger, Vienna, A*

- |       |  |    |
|-------|--|----|
| 10:30 | <b>Diagnosis of skin cancer using image analytical tools and neural networks for classification</b>  | 34 |
|       | <i>K. Hoffmann, Ruhr-University (Bochum, D)</i>  |    |
| 10:50 | <b>How successful are the generally accepted criteria for classification for skin cancer?</b>  | 35 |
|       | <i>H. Pehamberger, University of Vienna (Vienna, A)</i>  |    |
| 11:10 | <b>Objective assessment of involved area in patients with atopic dermatitis</b>  | 36 |
|       | <i>H.-C. Kim, H.-S. Oh, Y.-M. Yoon, J.-S. Moon, S.-Y. Park, C.-H. Oh, M.-G. Kim, Korea University (Seoul, KOR)</i>   |    |
| 11:25 | <b>An approach to the discrimination of benign common nevi and malignant melanoma from two different views: wavelet texture analysis versus co-occurrence matrix</b> | 37 |
|       | <i>M. Wiltgen, A. Gerger, J. Smolle, University of Graz (Graz, A)</i>  |    |
| 11:40 | <b>Automated tissue classification, lesional identification and pattern indicators of melanocytic skin tumors at the microscopic level</b>                           | 38 |
|       | <i>A. Gerger, J. Smolle, Department of Dermatology, University of Graz (Graz, A)</i>   |    |



# PROGRAM

FRIDAY, MAY 23, 2003

Room 5

10:30 - 12:00

## Symposium 2 B

### Claims support in cosmetology and pharmacology

*Chair: J. Welzel, Lübeck, D; E. Berardesca, Rome, I*

- |       |   |    |
|-------|---|----|
| 10:30 | <b>Ethics of skin bioengineering studies</b><br><i>P. Elsner, Friedrich Schiller University (Jena, D)</i>   | 39 |
| 10:50 | <b>The science of the score in dermatology</b><br><i>L. Naldi, Ospedali Riuniti (Bergamo, I)</i>  | 40 |
| 11:10 | <b>Development of active barrier skin creams that protect against chemical warfare agents</b><br><i>E.H. Braue, Jr., U.S. Army Medical Research Institute of Chemical Defense (Aberdeen Proving Ground, USA)</i>  | 41 |
| 11:25 | <b>Anti-inflammatory efficacy of <i>Poria cocos</i> in SLS induced irritant contact dermatitis and UVB-induced erythema</b><br><i>S.M. Fuchs<sup>1</sup>, C. Heinemann<sup>1</sup>, J.W. Fluhr<sup>1</sup>, S. Schliemann-Willers<sup>1</sup>, U. Gräfe<sup>2</sup>, P. Elsner<sup>1</sup></i><br><i><sup>1</sup>Friedrich-Schiller-University (Jena, D)</i><br><i><sup>2</sup>Hans-Knöll-Institute for Natural Products Research (Jena, D)</i> | 42 |
| 11:40 | <b>Evidence for the phenomenon of acquired cutaneous hyper-irritability after previous eczema</b><br><i>S.M. John, H.J. Schwanitz, University of Osnabrück (Osnabrück, D)</i>   | 43 |
- 

# PROGRAM

FRIDAY, MAY 23, 2003

Room 6

12:00 - 14:00

**Lunchsymposium: GF-Messtechnik GmbH**

## **Optical 3D in vivo skin measurement by PRIMOS- technology and application**

*Chair: G. Frankowski, Berlin, D*

**12:00 Welcome**

*G. Frankowski (Berlin, D)*

**12:05 Experiences in the application of the projected fringe method in cosmetic  
research**

*S. Jaspers (Hamburg, D)*

**12:45 Experiences of the application of the PRIMOS in clinical application**

*H.-P. Berlien, B. Algermissen (Berlin, D)*

**13:15 Computer aided 3D modelling of skin surfaces in vivo measured by  
PRIMOS**

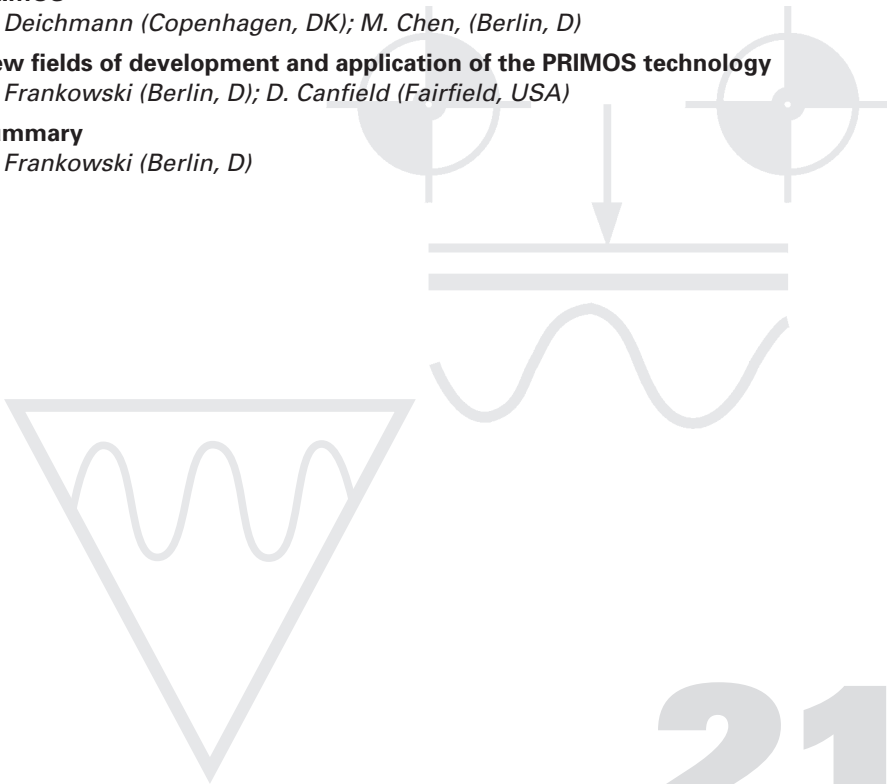
*N. Deichmann (Copenhagen, DK); M. Chen, (Berlin, D)*

**13:30 New fields of development and application of the PRIMOS technology**

*G. Frankowski (Berlin, D); D. Canfield (Fairfield, USA)*

**13:50 Summary**

*G. Frankowski (Berlin, D)*



# PROGRAM

FRIDAY, MAY 23, 2003

Room 6

14:30 - 16:15

## Plenary V

### Poster Viewing

*Chair: H.I. Maibach, San Francisco, USA; J. Serup, Linköping, S*

**14:30 Poster Viewing in the Poster Area**

**15:30 Moderated session including announcement of poster prizes in room 5**

For full listing of posters to be presented please refer to page 27

The poster authors must be present by their poster as follows:

Even numbers:

Friday 23 10:00 - 10:30 & 14:30 - 15:00

Odd numbers:

Friday 23 12:00 - 12:30 & 15:00 - 15:30

16:15 Coffee break and exhibition visit





# PROGRAM

FRIDAY, MAY 23, 2003

Room 6

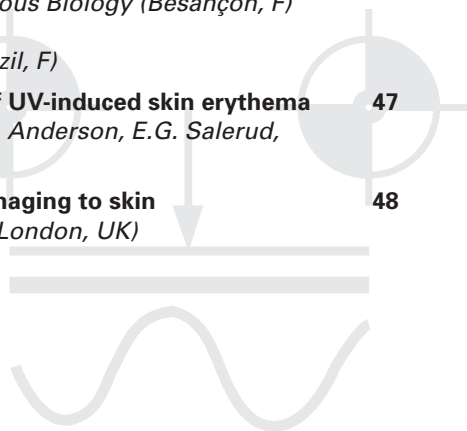
16:45 - 18:05

## Symposium 3 A

### Epiluminescence microscopy & multimodal skin imaging

*Chair: W. Stolz, Munich, D; H. Voigt, Hamburg, D*

- |       |   |    |
|-------|---|----|
| 16:45 | <b>Basics of dermatoscopy</b>   | 44 |
|       | <i>W. Stolz, Krankenhaus Munich-Schwabing (Munich, D)</i>   |    |
| 17:05 | <b>Substructure Cohesion Analysis (SCA) in borderline melanocytic lesions</b>   | 45 |
|       | <i>H. Voigt, Melanoma Research Project (Hamburg, D)</i>   |    |
| 17:20 | <b>Videocapillaroscopy allows assessment of scalp capillary loops increase due to a hair lotion containing VEGF stimulating agent</b>                                 | 46 |
|       | <i>A. Degouy<sup>1</sup>, J.M. Sainthillier<sup>2</sup>, A.M. Schmitt<sup>3</sup>, P. Creidi<sup>2</sup>, V. Ermosilla Michel<sup>4</sup>, P. Humbert<sup>1</sup></i> |    |
|       | <i><sup>1</sup> CHU de Besançon (Besançon, F)</i>   |    |
|       | <i><sup>2</sup> Laboratory of Engineering and Cutaneous Biology (Besançon, F)</i>   |    |
|       | <i><sup>3</sup> Laboratoires Pierre Fabre (Lavaur, F)</i>   |    |
|       | <i><sup>4</sup> Laboratoires Pierre Fabre (Vigoulet Auzil, F)</i>   |    |
| 17:35 | <b>A spectroscopic study of the borders of UV-induced skin erythema</b>   | 47 |
|       | <i>E. Häggblad, H. Petersson, M.A. Ilias, C. Anderson, E.G. Salerud, Linköpings University (Linköping, S)</i>   |    |
| 17:50 | <b>Applications of ATR-IR spectroscopic imaging to skin</b>   | 48 |
|       | <i>S. Kazarian, A. Chan, Imperial College (London, UK)</i>  |    |



# PROGRAM

FRIDAY, MAY 23, 2003

Room 5

16:45 - 18:05

## Symposium 3 B

### New bioengineering techniques

*Chair: G. Grove, Media, USA; S. Jaspers, Hamburg, D*

- 16:45 News in itch measurements** 49  
*G. Yosipovitch, Wake Forest Medical Center (Winston Salem, USA)*
- 17:05 Measurement of water evaporation rates with a closed chamber TEWL meter** 50  
*J. Nuutinen<sup>1</sup>, E. Alanen<sup>1</sup>, T. Lahtinen<sup>2</sup>*  
*<sup>1</sup> Delfin Technologies Ltd (Kuopio, FIN)*  
*<sup>2</sup> University of Kuopio (Kuopio, FIN)*
- 17:20 Electrical impedance for evaluation of different skin tumours** 51  
*I. Nicander, U. Holmgren, P. Åberg, S. Ollmar, Huddinge University Hospital, Läkarmottagningen Hötorgscity, Karolinska Institutet (Huddinge, Stockholm, S)*
- 17:35 EdemaMeter - a new device to detect tissue edema in skin and subcutaneous tissues** 52  
*T. Lahtinen<sup>1</sup>, R. Ikäheimo<sup>2</sup>, E. Lampainen<sup>2</sup>, J. Nuutinen<sup>3</sup>*  
*<sup>1</sup> University of Kuopio (Kuopio, FIN)*  
*<sup>2</sup> University Hospital of Kuopio (Kuopio, FIN)*  
*<sup>3</sup> Delfin Technologies Ltd (Kuopio, FIN)*
- 17:50 Skin surface pH fluctuates in function of skin sites, populations, age, season and daytime** 53  
*S. Guehenneux, F. Morizot, J. Latreille, C. Guinot, E. Tschachler, C.E.R.I.E.S (Neuilly sur Seine, F)*
- 20:00 Congress dinner at Zippelhaus**  
**(see page 48)**

# PROGRAM

SATURDAY, MAY 24, 2003

Room 6

09:00 - 10:40

## Plenary VI

### MRI & skin surface imaging

*Chair: J.-L. Lévêque, Clichy, F; A. Zemtsov, Muncie, USA*

- 09:00 Optical analysis of skin surface - approach to the skin radiance** 54  
*P. Humbert, T. Gharbi, University Hospital St Jacques, University of Franche-Comté (Besançon, F)*
- 09:20 State of the art of magnetic resonance imaging of the skin** 55  
*B. Querleux, L'Oréal Recherche (Aulnay-sous-bois, F)*
- 09:40 SAFIR - Skin Analysing Fluorescence Imaging Recorder: an extended fluorescent view into the human follicle** 56  
*A. Herpens<sup>1</sup>, S. Scheede<sup>1</sup>, S. Schagen<sup>1</sup>, B. Timmermann<sup>1</sup>, V. Schreiner<sup>1</sup>, H. Wenck<sup>1</sup>, K. Wittern<sup>1</sup>, A. Klose<sup>2</sup>, R. Kruse<sup>2</sup>*  
*<sup>1</sup>Beiersdorf AG (Hamburg, D)*  
*<sup>2</sup>Otto-von-Guericke-Universität (Magdeburg, D)*
- 09:55 Three-dimensional imaging representations. A method to visualize subtle changes of the human cutaneous structures** 57  
*M.D. Vazquez-Duchêne, V. Gillon, J.L. Contet-Audonneau, O. Freis, G. Perié, C. Jeanmaire, D. Gauché, G. Pauly, Laboratoires Serobiologiques Division de Cognis (Pulnoy, F)*
- 10:10 Signal versus noise: the interest of new methods for hair growth - hair loss monitoring in human skin in vivo** 58  
*D.J.J. Van Neste, Skinterface (Tournai, B)*
- 10:25 Directions for in vivo fibre optic confocal microscopy** 59  
*P. Delaney, R. Pattie, S. Thomas, Optiscan Pty Ltd (Notting Hill, AUS)*

# PROGRAM

SATURDAY, MAY 24, 2003

Room 6

11:15 - 12:45

## Plenary VII

### Ultrasound & functional imaging

*Chair: J. C. Bamber, Sutton, UK; M. Stücker, Bochum, D*

- 11:15 Multimodal imaging - what can we expect?** 60  
*H. Ermert, Ruhr-University (Bochum, D)*
- 11:35 Sonographic reflex-transmission imaging and co-registered optical surface feature analysis** 61  
*J.C. Bamber<sup>1</sup>, N.L. Bush<sup>1</sup>, M. Dickson<sup>1</sup>, C. Guittet<sup>1</sup>, Z. She<sup>2</sup>, P. Fish<sup>2</sup>, D. Rallen<sup>3</sup>, C.C. Harland<sup>3</sup>, P.S. Mortimer<sup>1</sup>*  
*<sup>1</sup> Institute of Cancer Research (Sutton, UK)*  
*<sup>2</sup> University of Wales (Bangor, UK)*  
*<sup>3</sup> Sutton Hospital (Sutton, UK)*
- 11:55 Visualisation of skin oxygenation** 62  
*M. Stücker, Ruhr-University Bochum (Bochum, D)*
- 12:15 Automatic measurement of dermal thickness from B-scan ultrasound images using active contours** 63  
*J.-M. Lagarde, J. George, R. Soulcie, D. Black, S. Diridollou, Institut de Recherche Pierre Fabre (Toulouse, F)*
- 12:30 Sensitive skin objectivation by functional MRI** 64  
*B. Querleux<sup>1</sup>, R. Jourdain<sup>2</sup>, K. Dauchot<sup>3</sup>, Y. Burnod<sup>4</sup>, J. Bittoun<sup>2</sup>, P. Bastien<sup>2</sup>, O. de Lacharrière<sup>1</sup>*  
*<sup>1</sup> L'Oréal Recherche (Aulnay-sous-bois, F)*  
*<sup>2</sup> L'Oréal Recherche (Clichy, F)*  
*<sup>3</sup> INSERM U483, Université Paris VII (Paris, F)*  
*<sup>4</sup> CIERM - CNRS ESA 8081 (Le Kremlin-Bicêtre, F)*
- 12:45 Closing Ceremony**  
*Chair: S. El Gammal, Freudenberg, D; P. Elsner, Jena, D; K.-P. Wilhelm, Hamburg, D*

## POSTERS

The poster authors must be present by their poster as follows:

Even numbers: Friday 23, 10:00 - 10:30 & 14:30 - 15:00

Odd numbers: Friday 23, 12:00 - 12:30 & 15:00 - 15:30

- P65 Investigation of the phase behavior of the different alpha and beta hydroxycarboxylic acids**  
*A. Al-Bawab, University of Jordan (Amman, JOR)*
- P66 Classification of fluorescence images of skin lesions based on PCA and local ICA**  
*H.G. Stockmeier, C. Bauer, F. Theis, W. Bäumlner, C. Abels, E.W. Lang, University of Regensburg (Regensburg, D)*
- P67 Neural representations in videomicroscopy**  
*J.-M. Sainthillier, P. Humbert, T. Gharbi, LIBC, Laboratoire d'Optique PM Duffieux (Besançon, F)*
- P68 Automatic nevus counting: a pilot study**  
*T.K. Lee, M. King, S. Lau, M.S. Atkins, D.I. McLean, BC Cancer Agency, Simon Fraser University, Vancouver Hospital and Health Sciences Centre (Vancouver, Burnaby, CAN)*
- P69 Pilosebaceous unit. Histometry and 3D features**  
*Z. Milosavljevic, S. Jancic, G. Samardzic, University Medical School (Kragujevac, YU)*
- P70 Non- and semi-invasive quantitative and qualitative assessment of epidermal regeneration by the use of an in vivo wound healing model**  
*D. Haentschel, M. Gorath, J. Degwert, SIT Skin Investigation and Technology Hamburg GmbH (Hamburg, D)*
- P71 Two-dimensional modeling of the mechanical properties of human skin**  
*T. Heinrich, University of the German Armed Forces (Hamburg, D)*
- P72 The skin electrophysiological imaging (SEI): methodological and phenomenological findings**  
*Y. Babich, Institute for Applied Problems of Physics & Biophysics (Kiev, UKR)*
- P73 Skin microrelief topography measurements of ageing skin using a light transmission method**  
*K. De Paepe, J.-P. Hachem, E. Houben, J.-M. Lagarde, Y. Galle, D. Roseeuw, V. Rogiers, Vrije Universiteit Brussel, Academic Hospital-Jette, Pierre Fabre Research Institute (Brussels, B; Toulouse, F)*
- P74 Quantifying skin ashing using cross-polarized imaging**  
*H. Santanastasio, S. Zhang, S. Krishnan, R. Velthuizen, P. Shah, L. Tsaor, Unilever Research US (Edgewater, USA)*

## POSTERS

- P75**    **Changes in mechanical properties of the skin caused by photoaging**  
*A. Oba, POLA Chemical Industries Inc. (Yokohama, JP)*
- P76**    **A mechanical model for the skin suction experiment**  
*D. Brokken, L.J.M. Schlangen, P.M. van Kemenade, Philips Research Laboratories (Eindhoven, NL)*
- P77**    **Hair cycle transitions: in vivo monitoring using contrast enhanced photo-trichogram**  
*D.J.J. Van Neste, Y. Demortier, Skinterface (Tournai, B)*
- P78**    **Blue light visualizes the degree of solar elastosis in photodamaged human facial skin**  
*I. Sadiq, T. Stoudemayer, A. Kligman, S.K.I.N., Incorporated (Conshohocken, USA)*
- P79**    **Use of trans-cutaneous oxygen and carbon dioxide monitoring to assess the breathability of the skin and skin formulations**  
*L. Ilardi, V. Foy, C. Penksa, I. Flores, S. Burke, Unilever Research and Development (Edgewater, USA)*
- P80**    **In vivo study of skin mechanical properties in Raynaud's phenomenon**  
*H. Dobrev, Medical University (Plovdiv, BG)*
- P81**    **Objective evaluation of severity in SLS-induced irritant dermatitis: comparing the studies between new skin color analysis technique and other bioengineering tools**  
*H.-C. Kim, S.-J. Hong, M.-H. Lee, J.-S. Moon, H.-S. Oh, M.-G. Kim, C.-H. Oh, S.-Y. Park, Korea University (Seoul, KOR)*
- P82**    **Objective evaluation for lesional severity in atopic dermatitis**  
*H.-S. Oh, S.-W Son, Y.-M. Yoon, S.-Y. Park, H.-C. Kim, J.-S. Moon, M.-G. Kim, C.-H. Kim, Korea University (Seoul, KOR)*
- P83**    **Human hair follicle organ culture as a screening tool for „hair drug“ discovery**  
*A. Zambon Bertoja, A. Mescalchin, P. Pertile, R. Paus, Cotech Srl, University of Hamburg (Padua, I; Hamburg, D)*
- P84**    **Real time spatial compound imaging versus conventional high frequency ultrasonography of normal and psoriatic nails**  
*E.A. Holm, X. Wortsman, M. Gniadecka, H.C. Wulf, G.B.E. Jemec, Division of Dermatology, Imaging Department (Roskilde, DK; Santiago, CL; Copenhagen, DK)*

## POSTERS

- P85 The effect of urea from dermo-cosmetic emulsions on skin hydration and its barrier function: a vehicle-controlled study**  
*S. Savic, N. Cekic, S. Tamburic, J. Milic, G. Vuleta, Belgrade Faculty of Pharmacy, DCP Hemigal, The London Institute (Belgrade, Leskovac, YU; London, UK)*
- P86 Measurement of skin hydration in the diapered area of infants with a closed chamber TEWL meter**  
*E. Alanen, F. Wiesemann, J. Nuutinen, T. Lahtinen, Delfin Technologies Ltd, Procter & Gamble, University of Kuopio (Kuopio, FIN; Schwabach, D)*
- P87 In-vivo determination of mechanical properties of human dermis, using a numerical-experimental technique**  
*F.M. Hendriks, D. Brokken, J.T.W.M. van Eemeren, C.W.J. Oomens, F.P.T. Baaijens, Eindhoven University of Technology, Philips Research Laboratories (Eindhoven, NL)*
- P88 Comparisons of skin characteristics between men and women using non-invasive methods in young healthy Asians**  
*H.K. Lee, S.Y. Ahn, J.H. Bae, S.J. Moon, I.S. Chang, Amore Pacific R&D Center (Yongin, KOR)*
- P89 Skin mapping using a low-cost digital imaging system**  
*J. Smolle, G. Paar, A. Gerger, University of Graz, Joanneum Research (Graz, A)*
- P90 Bioengineered characterization of the thermal burn injury healing process**  
*L. Monteiro Rodrigues, J. Martins Magro, M. Mouzinho, P. Pinto, M. Almeida, University of Lisbon, Hospital S. José (Lisbon, P)*
- P91 The plastic occlusion stress test as a tool to assess damage inflicted to the skin barrier function**  
*C. Rosado, P.C. Pinto, L. Monteiro Rodrigues, University of Lisbon, UDE-ULHT (Lisbon, P)*
- P92 Pressure-controlled measurement of skin surface hydration with MoistureMeter**  
*J. Nuutinen, E. Alanen, K. Nicklen, Delfin Technologies Ltd (Kuopio, FIN)*
- P93 Free radical scavenging effectiveness of dermally applied ascorbyl palmitate**  
*M. Gasperlin, P. Jurkovic, M. Sentjurc, J. Kristl, University of Ljubljana, J. Stefan Institute (Ljubljana, SLO)*
- P94 Improvement of dermal extracellular matrix structure and composition after treatment with Imedeen Time Perfection in an in vitro skin equivalent**  
*C. Bouez, O. Damour, J. Vicanova, Banque de Tissus et Cellules HLC, Ferrosan A/S (Lyon, F; Soeborg, DK)*

## POSTERS

- P95** **Visioscan VC 98 application: a comparison study between coarse and smooth skin surface**  
*R. Pena Ferreira, P. Costa, F. Bahia, FFUP (Porto, P)*
- P96** **Moisturizing properties of two oleogels following single application**  
*I.F. Almeida, D. Endo, M.F. Bahia, Faculty of Pharmacy, State University (Porto, P; Maringá, BR)*
- P97** **Percutaneous penetration of diclofenac: comparison between the in vivo iontophoretic delivery and passive diffusion**  
*R. Lambrecht, P. Clarys, A.O Barel, Vrije Universiteit Brussel (Brussels, B)*
- P98** **Skin microtopography: age-related changes in Caucasian and Japanese women**  
*S. Guehenneux, I. Le Fur, H. Zahouani, R. Vargiolu, L. Ambroisine, C. Guinot, E. Tschachler, C.E.R.I.E.S., Ecole Centrale de Lyon (Neuilly sur Seine, Lyon, F)*
- P99** **Short-term glucocorticoid treatment compromises both permeability barrier homeostasis and stratum corneum integrity: inhibition of epidermal lipid synthesis accounts for functional abnormalities**  
*J.W. Fluhr, J.S. Kao, P.M. Elias, K.R. Feingold, Skin Physiology Laboratory, UCSF (Jena, D; San Francisco, USA)*
- P100** **Improvement of penetration of a topical corticoid by waterfiltered infrared A (wIRA)**  
*L. Bankova, C. Heinemann, J.W. Fluhr, G. Hoffmann, P. Elsner, Friedrich-Schiller-University, Johann-Wolfgang-v.-Goethe University (Jena, Frankfurt, D)*
- P101** **Capacitance measurement of skin moisture: sophisticated calibration of instruments**  
*S. Bielfeldt, M. Brandt, A. Gerstenkorn, K.-P. Wilhelm, proDERM (Schenefeld, D)*
- P102** **Validation of improved texture and elasticity measures using benchmark cosmetic and dermatological anti-aging treatments**  
*S.S. Hawkins, C. Feinberg, M. Matzke, U. Santhanam, R.L. Weinkauf, Unilever R&D (Edgewater, USA)*
- P103** **Measuring technique of the facial pore size and its evaluation in Korean women**  
*S. Park, S.-J. Kim, Y. Yoo, S. Kang, LG Household & Health Care, Chonnam National University Medical School (Taejeon, Kwangju, KOR)*



## POSTERS

- P104 Detection of oxidative processes and the effectiveness of antioxidants (vitamin C) in/on the skin using UVA-induced UPE measurement techniques**  
*F. Khabiri, W. Mei, R. Hagens, V. Schreiner, H. Wenck, K.-P. Wittern, H.-J. Duchstein, Beiersdorf AG, University of Hamburg (Hamburg, D)*
- P105 A rapid, accurate, and facile method to quantify the antioxidative capacity of topical formulations**  
*H. Zhai, M.J. Choi, M. Arens-Corell, B.A. Neudecker, H.I. Maibach, University of California, Sebapharma GmbH & Co (San Francisco, USA; Boppard, D)*
- P106 Visibility of facial wrinkle reduction as assessed by various types of observers**  
*J.H.D.M. Westerink, Personal Care Institute, Philips Research (Eindhoven, NL)*
- P107 Versatility of the skin sorption-desorption test in assessing personal care products**  
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# GENERAL INFORMATION

## Registration Hours (on-site)

Wednesday, May 21, 2003	12.00-19.00
Thursday, May 22, 2003	08.00-18.00
Friday, May 23, 2003	08.00-18.00
Saturday, May 24, 2003	08.30-13.00

## Registration Deadlines

March 31, 2003 (reduced fee - Deadline 2)

Of course you can still register after March 31, 2003 including on-site registration at the meeting. Save time and money: Register in advance!

## Registration fees

Registration and payment received	as from January 16, 03 to March 31, 03	as from April 1, 03
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ISBS/ISSI Members	€ 400.00	€ 450.00
Non Members	€ 450.00	€ 500.00
Scientists in training*; Students*	€ 230.00	€ 280.00
Retirees*	€ 225.00	€ 250.00
Dayticket	€ 120.00	€ 140.00
Dayticket Scientists in training*; Students*	€ 60.00	€ 60.00
Retirees*	€ 40.00	€ 40.00

\* Copy of official document required

\*\* Number of available Seats is limited

# GENERAL INFORMATION

## Included in the registration fee:

- Congress Bag
- Final Program
- Abstract Book (Copy of Skin Research and Technology Journal)
- Admission to all Scientific Sessions of the Congress/  
Satellite Symposium/Lunch Symposium
- Opening Ceremony and Opening Lecture
- Get-together
- Coffee-Break

Registration for other educational parts of the congress and social events has to be made and paid for separately (see registration form).

**You also may wish to register via internet using the homepage:**  
[www.akm.ch/ISBS/ISSI2003](http://www.akm.ch/ISBS/ISSI2003)

## Payment

Add the registration and social program fees on the registration form to determine the entire amount of payment due. Please pay this amount by credit card, bank transfer or check payable in Euro funds. If using a credit card, indicate the card type (Visa, Mastercard, American Express) entire card number (check digits), expiration date, and the cardholder's signature. We recommend to effect remittance from other countries by credit card because of the bank and check charges. Expenses will be recharged as per actual costs.

If you are remitting fees by bank transfer, ensure that the full amount due in Euro funds, is remitted free of charge to:

Deutsche Bank, Weil am Rhein, Germany,  
Account No 275 99 59.05 (BLZ 683 700 24).  
(Swift Code: Deut De 6F 679)

Be sure to instruct the financial institute to include the registrant's name and address on the document.

Do not send registration forms or checks to any other address than to AKM Congress Service GmbH. Your registration will not be processed without payment.

## Confirmation

Upon receipt of the full registration fee, each participant will receive a confirmation of registration and payment. Please present this confirmation at the registration desk as proof of your advance registration.

# GENERAL INFORMATION

## **Cancellation/Refund Policy**

If you must cancel your registration and tickets, your written request must be received by April 10, 2003, at the Administrative Secretariat c/o AKM Congress Service GmbH, in Weil am Rhein/Germany, to receive a refund, less 25% administrative charge. After April 10, 2003, no refund can be made for cancellations. Vouchers for the official dinner cannot be replaced if lost. For any name changes, a fee of € 15.00 will be charged.

The participant acknowledges that she/he has no rights to lodge damage claims against the organisers should the holding of the Congress be hindered or prevented by unexpected political or economic events or generally by force majeure, or should non-appearance of speakers or other reasons necessitate program changes. With her/his registration, the participant accepts this proviso.

## **Certification**

The congress has been given certification by the German Dermatological Academy (DDA). For each 1/2 day attended you receive 3 advanced training points within category A and for each full day, 6 advanced training points within category A. Please make sure you bring your membership card and have your details registered at the congress secretariat each day.

## **Documentation**

Advance registrants may pick up their registration packets (congress wallet, personal name badge, vouchers, final program, abstract booklet) at the registration desk in the CCH Congress Centrum Hamburg.

## **Hotel reservation**

Hotel rooms of various categories are preliminarily booked for the participants. Please send the enclosed hotel reservation form (page 21) to:

Hamburg Messe und Congress GmbH  
P.O. Box 302 480  
20308 Hamburg - Germany  
Fax: ++49 (0) 40 - 3569-2269

May is a very popular time for tourists as well as for other conventions. Please make your reservation early in advance!

## **Visa**

The organizers recommend all participants to check the Visa-Agreement of Germany with the respective country of origin. Participants may wish to contact the German embassy of their country.

# GENERAL INFORMATION

## **Coffee Break**

Coffee service will be provided free of charge for registered participants in the exhibition area during the official coffee breaks.

## **Luncheons**

Lunch will be available at the CCH Congress Center Hamburg or in several restaurants nearby (not included in Congress-Fee).

## **Exhibition**

An exhibition of the latest technical equipment and pharmaceutical products will be open from May 22-24, 2003. For information on exhibition please contact:

AKM Congress Service GmbH  
Ms. H. Brabec  
Hauptstr. 18  
79576 Weil am Rhein  
Germany  
Phone: ++49 (0) 7621-9833-33  
Fax: ++49 (0) 7621-787 14  
E-mail: [brabec.h@akmcongress.com](mailto:brabec.h@akmcongress.com)

## **Travel**

The Congress Center Hamburg is centrally located with easy transport links for fast and reliable travel. It is in the centre of Hamburg, right next to the Hamburg-Dammtor Intercity main line train station, at the edge of Planten un Blomen park.

## **Air**

Hamburg Airport serves 114 destinations worldwide, with direct links to 52 European cities. It is located in the North of the city, with easy connections by airport buses, scheduled buses and taxis. Travel time from CCH to the airport is between 20 and 30 minutes.

Hamburg Airport online: [www.ham.airport.de](http://www.ham.airport.de)

## **Road**

The CCH is already signposted at Hamburg's motorway exits. The signposts indicate the shortest route to CCH, which has 900 parking spaces in its own underground car park.

## **Rail**

The CCH is directly linked with the ICE, IC and Interregio network of Deutsche Bahn, with its own Intercity main line train station, Dammtor, just a few steps away. Timetable information of Deutsche Bahn: [bahn.hafas.de](http://bahn.hafas.de)

# GENERAL INFORMATION

## **Public transport**

The CCH is also easily accessible via public transport, linking it with the whole of the city areas.

S-Bahn: Rapid transmit lines S11, S21, S31 to Hamburg Dammtor  
U-Bahn: Metro lines U1 to Stephansplatz or U2 to Gänsemarkt  
Buses: 102 and 109 to Dammtor, or 112 to Stephansplatz  
Express Buses: 34 to Dammtor, 35 to Heinrich-Hertz-Turm or 36 to Stephansplatz

Hamburg public transport online: [www.hvv.de](http://www.hvv.de)

## **Technical Equipment**

Computer projection (beamer) ist preferred. Data beamer are available in each room. There will be **no** possibility for the use of slide projection or overhead projector. Speakers are urged to bring their media on a Windows readable or Macintosh CD-ROM. Speakers wishing to use their own laptops have to make sure to have a VGA output.

## **Posters**

All posters will remain hanging during the entire meeting.

Postersize is max. 150 cm (high) x 98 cm (width).

Mounting time: Wednesday, May 21, from 12.00 hr.

Poster removal: Saturday, May 24, between 11.00 and 13.00 hr.

Posters not removed by 13.00 h will be thrown away.

## **Media-Check**

Speakers are required to bring their CD-ROM at least 45 minutes prior to the beginning of their session to the Media-Check. Kindly leave the CD-ROM with the projectionist who will take it to the lecture hall. Please remember to collect the CD-ROM from the projectionist after the session at the Media-Check.

## **No Smoking Policy**

The Organizing Committee maintains its policy that the ISBS/ISSI Meeting be a totally non-smoking environment. Smoking will not be permitted anywhere at the Meeting.

## **Evaluation Forms**

Evaluation and Suggestion Forms will be available at the registration area. Please provide any comments, criticism, suggestions, or anything else of value in critiquing the Meeting. The forms may be signed or remain anonymous.

# CITY OF HAMBURG

Hamburg is one of the most beautiful cities in Germany - it has everything.

With its population of 1.7 million, the free and hanseatic city of Hamburg is situated some 60 miles from the North Sea estuary of the river Elbe.

Hamburg is unparalleled for its exciting mixture of world city culture, harbour flair, Alster romance and its townscape full of parks and tree-lined boulevards. Hamburg is the second greatest city in Germany and boasts more bridges than Venice, London and Amsterdam put together.

In the heart of the city the Alster lake invites for rowing, sailing or simply for post-meeting relaxing. The other main water experience is the Elbe. The river is busy with huge overseas ships heading for Europe's second largest port or already on their way back to the sea after a short rest, allowing the sailors a few hours of leisure, mostly spend at St. Pauli, one of the worlds most famous entertainment districts.

In its center lies the Reeperbahn, known for its reputation of being the worlds „most sinful mile“, although nowadays you will find the most exciting discotheques, pubs and theaters in this area as well.

The city's daytime attractions are no less unique. Take the network of some dozen arcades between Jungfernstieg and City Hall Square or Mönckebergstraße with its department stores and the shopping mall Levantehaus - shopping in Hamburg is



# CITY OF HAMBURG



Binnenalster

fun. And if you are more interested in art and culture, Hamburg offers the finest exhibitions and performances in 40 museums and theaters.

During the summer months Hamburg has a very attractive climate with an average day temperature of around 20 degrees Celsius (70 degree Fahrenheit).

If you would like more information about Hamburg, you can visit the following web sites:

[www.hamburg.de](http://www.hamburg.de)

[www.hamburg-magazin.de](http://www.hamburg-magazin.de)

[www.hamburg-tourism.de](http://www.hamburg-tourism.de)

What's on in Hamburg

What's on in Hamburg

What to see and where to stay in Hamburg



## SOCIAL PROGRAM

### **Discover Hamburg off your own bat!**

Culturally Hamburg offers anything and everything starting at the Great Hall of Art and the State Opera, and continuing on to the music clubs on the Reeperbahn.

There are 31 theatres in Hamburg, 6 musical performing halls, 10 cabarets as well as 50 public and private museums. Of the 4000 restaurants to choose from, 2400 offer a wide range of international cuisine.

The banks of the Elbe and the Alster Rivers readily invite you to promenade along their shores to your heart's desire. Harbor sight-seeing boat trips are more than impressive and let you enjoy a view of the panorama from a very special vantage point.

There's a grand lake right in the heart of the city center, the Alster. At the very end of a sight-seeing boat trip on the Alster, you are actually in the center of town, where you may shop to your heart's content or take a much needed rest in a street-side café. You may go anywhere you like, very fast, for a small charge, if you hop on to any of the modern subway trains or the metro busses waiting there for you.

The countryside of Hamburg is especially charming and attractive. First the fruit plantations of the Altes Land with their fascinating antique farm houses, are without doubt worth the trip of getting there by bus or by bike. Then the historic old town centers of Stade or Lüneburg may be reached within half an hour. Finally it will take you just an hour to get to Lübeck and the Baltic Sea coast by car.

Explore beautiful Hamburg on the weekend after the congress. We have arranged a spectacular event for you on May 24 afternoon:

### **Dialogue in the dark® ([www.dialog-im-dunkeln.de](http://www.dialog-im-dunkeln.de))**

An exhibition to discover the unseen. A fascinating journey challenging your senses. Please make your ticket reservation in advance (latest April 30, 2003 at [schlachter.a@akmcongress.com](mailto:schlachter.a@akmcongress.com) or use the registration form). All guided tours are in english language.

Guided Tour No. 1 15:00 o'clock

Guided Tour No. 2 15:45 o'clock

Guided Tour No. 3 16:15 o'clock

Guided Tour No. 4 16:45 o'clock

Guided Tour No. 5 17:30 o'clock

Price per person: EUR 12,00

# SOCIAL EVENTS

**Wednesday, May 21, 2003**

## **20:00 hr Welcome Reception**

Location: Historical Museum Ship  
(Rickmer Rickmers)

Joja Wendt live „sehr schwer zu spielen“  
(quite difficult to play)

The pianist and entertainer Joja Wendt is just as popular at international festivals as at his many concerts in Germany. The Hamburg native studied piano at the Conservatory in Hilversum and at the Manhattan School of Music/New York. After that, he has gained a large following primarily through his highly individual live interpretation of a wide range of musical styles including classical, blues, swing, boogie, ragtime and jazz. Joja Wendt is able to bridge the gaps between the various genres with an unique inspired sound with reflects both his virtuosity and creativity.

Joja Wendt has appeared on stage with international stars such as Chuck Berry, Jerry Lee Lewis, Lou Rawls, Fats Domino and Joe Cocker. He received the Louis Armstrong Jazz Prize in November 2000. Last Year he was admitted to the legendary circle of the Steinway Artists, an honor usually reserved for classical pianists.

Piano music which appeals all generations and provides entertainment for all. We consider it as a great honor that Joja Wendt will entertain us during the Welcome reception with his energetic, enthusiastic and virtuoso mastering of the piano. Please note: For security reasons high heels are not allowed on the ship.

Admission free, Pre-registration recommended  
From 19:30 hr Shuttle Bus available  
(one way)

**Friday, May 23, 2003**

## **20:00 hr Congress Dinner**

Location: "Zippelhaus"

Price/Person: € 60.00  
Students, Scientists in training: € 40.00  
Pre-registration recommended



# HOTEL RESERVATION FORM

## 1<sup>st</sup> Joint Meeting - 14<sup>th</sup> Congress for Bioengineering and the Skin and 8<sup>th</sup> Congress of the International Society for Skin Imaging Hamburg, May, 21 – 24, 2003

Please return this form before April 22, 2003 to:

Hamburg Messe und Congress GmbH (HMC), P.O. Box 302480, 20308 Hamburg – Germany  
Phone: +49 (0)40 3569-2345 Fax: +49 (0)40 3569-2269 e-mail: ankevan.zuetphen@cch.de

Please use typewriter or capital letters

Surname \_\_\_\_\_ Firstname \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

Postal Code \_\_\_\_\_ City \_\_\_\_\_

Country \_\_\_\_\_ e-mail \_\_\_\_\_

Phone \_\_\_\_\_ Telefax \_\_\_\_\_

### Hotel Reservation

Please reserve accommodation:  single room  double room

from \_\_\_\_\_ to \_\_\_\_\_ nights \_\_\_\_\_  
date of arrival date of departure

Hotel	Single room	Double room	Deposit / Room
Radisson SAS Hotel	EUR 158.00	173.00	150.00
Elysée	EUR 132.00	152.00	130.00
Böttcherhof	EUR 100.00	120.00	100.00
Baseler Hof	EUR 99.00	119.00	95.00

Rates are per room/night, incl. service, 16% VAT. – Rates don't include breakfast, except at Baseler Hof – Hotel rooms will only be reserved after receipt of a guarantee only. - Rates are subject to change.

Preferred hotel \_\_\_\_\_ 2<sup>nd</sup> choice hotel \_\_\_\_\_

### Deposit payment/Guarantee

I have transferred the deposit to your bank account: Hamburg Messe und Congress GmbH,  
w / proderm 2003 Hamburgische Landesbank (BLZ 200 500 00) Account no. 228 130 240

Please take my credit card as a guarantee: (a deposit is not required)

Eurocard/Mastercard  Visa  Diners Club  American Express

Credit card no.

Expiry date   /    
month year

Card holder's name \_\_\_\_\_

Date

Signature

With my signature I accept the conditions mentioned on this reservation form – see other side.



# EXHIBITION AND CONGRESS MANAGEMENT

## A JOB FOR SPECIALISTS

**AKM experts are always there  
when you need them**



AKM Congress Service GmbH, Hauptstrasse 18, D-79576 Weil am Rhein  
Telefon (+7621) 98 33-0, Telefax (+7621) 78 714, E-mail: [akmweil@akmcongress.com](mailto:akmweil@akmcongress.com)

# HOTEL RESERVATION FORM

## PLEASE NOTE:

**All reservations received later than April 22, 2003 must be confirmed by a credit card number.**

**(Bank transfers are longer possible.)**

**Reservations without a credit card number will not be handled.**

## CONDITIONS FOR HOTEL RESERVATIONS

**Deadline: April 22, 2003**

### Confirmation/Deposits:

Hotel rooms can only be reserved upon receipt of a deposit or a credit card number. All requests for hotel reservations and all deposits must be received by the HMC no later than **April 22, 2003**. If the desired hotel is fully booked, the HMC reserves the right to arrange accommodation in a different hotel.

For reservations and payments received later than the above mentioned date, all necessary efforts to procure a hotel room for you will be done. Please be aware that a guarantee for your hotel preference and/or the rates indicated cannot be given by the HMC. Upon receipt of the deposit, the guest will receive a hotel voucher with the amount of the deposit. This voucher must be presented upon arrival at the hotel. Any further hotel expenses are to be paid directly at the hotel by the guests themselves.

### Changes/Cancellation:

Changes in reservations and cancellations must be reported in writing to the HMC. Upon receipt of the reservation confirmation, the guest automatically becomes the legally binding contract partner of the hotel. HMC acts exclusively as an agent for hotel reservations. In the event of an early departure, the hotel is entitled to charge the entire reserved period, unless the room is taken by another guest. If the guest cancels a reservation prior to **April 22, 2003**, the deposit minus a cancellation fee of **EUR 26,00** (incl. 16% VAT) per room reservation on behalf and for the account of HMC will be refunded; any bank charges that may arise as a result of such a cancellation will be covered by the guest him-/herself. No refund will be made after this date. If however the hotel is able to rebook the room for another guest, the deposit minus the cancellation fee will be refunded. All costs must be borne by the guest.

### Credit card guarantee:

The guest guaranteeing his hotel reservation by credit card herewith entitles the HMC to forward the data of the credit card to the hotel as a guarantee for the room reservation. A deposit is not required.

# LIST OF SPONSORS

The organizing committee expresses its thanks and appreciation to all those who are generously contributing to the success of the 1st Joint Meeting, 14th International Congress for Bioengineering and the Skin and 8th Congress of the International Society for Skin Imaging:

## Gold-Sponsors:

**CuDerm Corporation**

**Leo Pharmaceutical Products Ltd.**

**L'Oréal**

## Sponsors:

**Aco Hud AB**

**Ajinomoto Co. Inc.**

**Authority for commerce and Labour of the free and hanseatic city of Hamburg**

**Beiersdorf AG**

**BioTesys GmbH**

**Colgate Palmolive**

**Courage & Khazaka Elektronik GmbH**

**GF Messtechnik GmbH**

**ISIS optronics GmbH**

**Pentapharm Ltd.**

**Procter & Gamble GmbH**

**Spirig Pharma Ltd.**

As of: March 31, 2003

An actualized list is available on the homepage of the meeting.

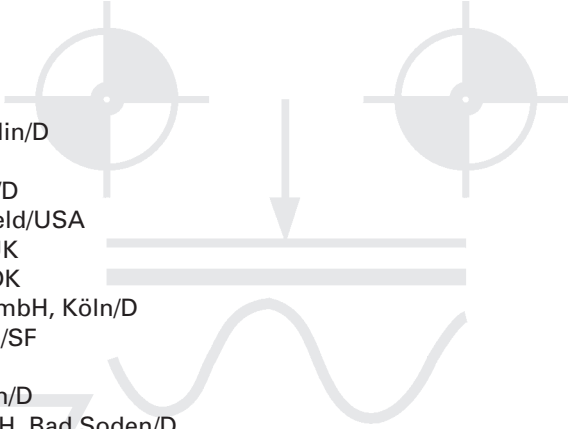
# LIST OF EXHIBITORS

## in numerical order

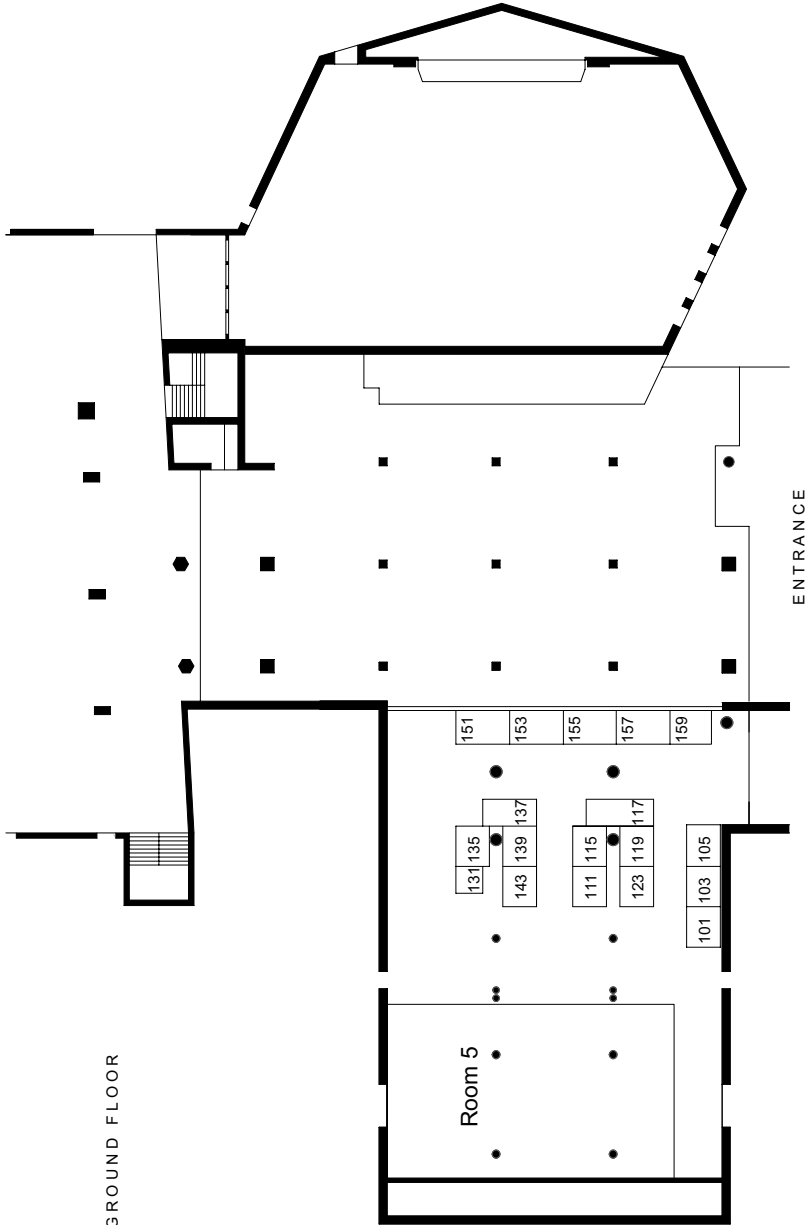
- 101 SIT Skin Investigation and Technology, Hamburg/D
- 103 Delfin Technologies Ltd., Kuopio/SF
- 105 taberna pro medicum GmbH, Lüneburg/D
- 111 ISIS optronics GmbH, Mannheim/D
- 115 Biox Systems Ltd., London/UK
- 117 Breuckmann GmbH, Meersburg/D
- 119 BioSkin GmbH, Hamburg/D, Berlin/D
- 123 Courage + Khazaka electronic GmbH, Köln/D
- 131 Perimed AB, Järfälla/S
- 135 Cardiff Biometrics Ltd., Cardiff/UK
- 137 Lawrenz Medizinelektronik GmbH, Bad Soden/D
- 139 Aster Cosmetology, Paris/F
- 143 CORTEX Technology, Hadsand/DK
- 151 Optiscan, Melbourne/AUS
- 153 proDERM Institute for Applied Dermatological Research, Schenefeld/D
- 155 m.u.t GmbH, Wedel/D
- 157 GFMesstechnik GmbH, Teltow/D
- 159 Canfield Clinical Systems, Fairfield/USA

## in alphabetical order

- 139 Aster Cosmetology, Paris/F
- 119 BioSkin GmbH, Hamburg/D, Berlin/D
- 115 Biox Systems Ltd., London/UK
- 117 Breuckmann GmbH, Meersburg/D
- 159 Canfield Clinical Systems, Fairfield/USA
- 135 Cardiff Biometrics Ltd., Cardiff/UK
- 143 CORTEX Technology, Hadsand/DK
- 123 Courage + Khazaka electronic GmbH, Köln/D
- 103 Delfin Technologies Ltd., Kuopio/SF
- 157 GFMesstechnik GmbH, Teltow/D
- 111 ISIS optronics GmbH, Mannheim/D
- 137 Lawrenz Medizinelektronik GmbH, Bad Soden/D
- 155 m.u.t GmbH, Wedel/D
- 151 Optiscan, Melbourne/AUS
- 131 Perimed AB, Järfälla/S
- 153 proDERM Institute for Applied Dermatological Research, Schenefeld/D
- 101 SIT Skin Investigation and Technology, Hamburg/D
- 105 taberna pro medicum GmbH, Lüneburg/D



# EXHIBITON FLOOR PLAN



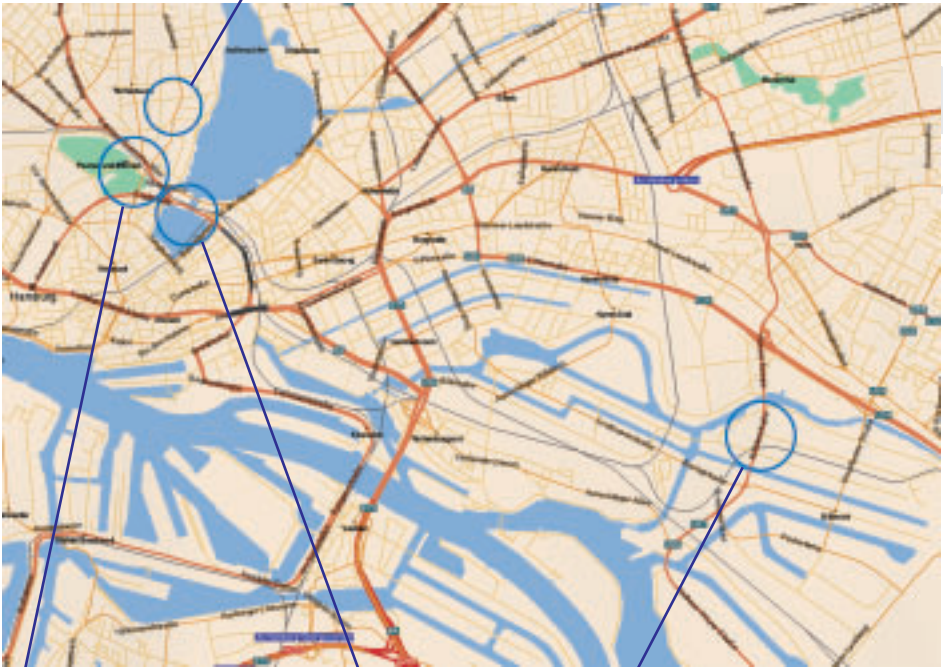
GROUND FLOOR



# CITY MAP



Elysee Hotel, Rothenbaumchaussee 10



CCH Congress Centrum Hamburg  
Hotel Radisson SAS Hotel (in CCH)

Hotel Baseler Hof, Esplanade 11  
Hotel Böttcherhof, Wöhlerstr. 2



# NOTES



## Excipial – das Dermatika-Grundlagenprogramm

- Trockene Haut?
- Empfindliche Haut?
- Vehikel für Intervall- und Stufentherapie?



# Excipial®

für eine  
dem Hautzustand  
angepasste Therapie

### Excipial®

Z: Crème, Fettcrème, Fettsalbe, Mandelölsalbe; unterschiedlich wasser- und ölhaltig. **K**: I Hautpflege, Intervallbehandlung mit Kortikoidpräparaten, Grundlagen für magistrale Rezepturen. **D**: 2-3x tgl. lokal. **P**: Crème, Fettcrème und Mandelölsalbe; Tuben mit 30 g\* lim. und 100 g\* lim.; Fettsalbe; Tuben mit 100 g\* lim.; Liste D.

### Excipial® U Hydrolotio/Lipolotio

Z: Hydrolotio (ml): 20 mg Carbamid, Lipidgehalt 11%. Lipolotio (ml): 40 mg Carbamid, Lipidgehalt 37%. **I**: Grossflächige Anwendung für Schutz und Pflege von empfindlicher oder leicht entzündeter Haut; Intervallbehandlung mit Kortikoiden. **D**: 2-3x tgl. lokal. **P**: U Hydrolotio: Flasche mit 200 ml\* und 500 ml; U Lipolotio: Flasche mit 200 ml\* und 500 ml; Liste D.

spirig

Spirig Pharma AG  
4622 Egerkingen

[www.spirig.ch](http://www.spirig.ch)