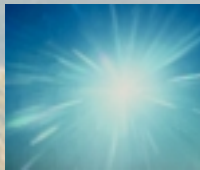


Program

1st European Weathering Symposium EWS

(XXIIIrd Colloquium of Danubian
Countries on Natural and Artificial
Ageing of Polymers)

September 25 and 26, 2003
Renaissance Hotel,
Prague, Czech Republic



1st European Weathering Symposium EWS

(XXIIIrd Colloquium of Danubian Countries
on natural and artificial ageing)

We take pleasure in inviting you to participate in the 1st European Weathering Symposium EWS (XXIIIrd Colloquium of Danubian Countries on natural and artificial ageing) to be held in Prague on September 25 and 26, 2003 and organised by CEEES.

Launched in 1967 by four relevant institutes from Austria, Czechoslovakia, Hungary and Yugoslavia, the Colloquia of Danubian Countries were the only independent meetings – meanwhile Europe-wide – in the field of natural and artificial weathering of polymers for more than 30 years. In the tradition of these colloquia the EWS shall become a meeting point for experts from industry and academy to learn from each other. Main topics in 2003 are:

- General Considerations on Weathering Tests
- Weathering Reference Materials
- New Test Procedures and Devices
- Thermal Ageing
- Weathering of Polymer Products
- Weathering of Coatings
- General Remarks on Weathering Tests
- Materials Testing/Analysis

September 24, 2003

19.00 h – 21.00 h Welcome Reception

September 25, 2003

8.00 h – 9.00 h Registration
9.00 h – 17.30 h Lectures/Discussions
19.00 h Conference Dinner

September 26, 2003

9.00 h – 18.00 h Lectures/Discussions



CEEES
Confederation of European
Environmental Engineering Societies

Language

Conference language will be English

Scientific committee

P. Trubiroha (Chairman), BAM, Berlin, D
Dr. J. Boxhammer ATLAS, Linsengericht, D
Dr. O. Guseva, EMPA, Dübendorf, CH
Dr. I. Jakubowicz, SP, Borås, S
Dr. L. Kranner, OEFI, Wien, A
Dr. L. Rychla, PI-SAS, Bratislava, SK
Dr. J. Sampers, DSM Research, Geleen, NL

Chairman

Dr. Thomas Reichert, Fraunhofer ICT, D

Organisation/ Conference Management

The European Weathering Symposium is being organised on behalf of CEEES by the German Society for Environmental Engineering GUS (Gesellschaft für Umweltsimulation e.V.).

Participation Fee

The participation fee is € 300,- until August 1st, 2003. This fee includes lunches and refreshments, welcome reception on September 24th, conference dinner on September 25th and the CD documentation. After August 1st the fee is € 350,-.

Cancellation

If written cancellation is received before August 15th, 2003 refund will be given minus 20 % administration charge. No refunds can be provided for registration cancelled after this date.

Registration

Please mail the attached registration form to:
Gesellschaft für Umweltsimulation GUS
Sonja Holatka
c/o Fraunhofer ICT
P.O. Box 1240
D-76318 Pfinztal, Germany
Phone: +49 (0) 721 / 4640-391
Fax: +49 (0) 721 / 4640-345
sonja.holatka@gus-ev.de
www.gus-ev.de

Registration fee has to be paid after getting the invoice from the secretariat or cash on arrival at venue.

Conference Venue

The symposium will be held at:
Renaissance Hotel Prague
V. Celnici 7,
11121 Prague,
Czech Republic

Accommodation

GUS has reserved a block of rooms at the Renaissance Hotel Prague at special convention rates until August 1st, 2003.

The daily room rates
(incl. breakfast, excl. tax) are:

September 24 and 25:
single room € 140,— (special GUS rate)
double room € 155,— (special GUS rate)

September 26 and 27:
all rooms € 165,— (weekend rate)

Please indicate your room reservation on the attached Registration Form and send it to Sonja Holatka before August 1st, 2003.



Pre-Meeting Program

Wednesday, September 24th, 2003

19.00 h – 21.00 h

Special Welcome Meeting for Environmental Testing Experts of the Czech Republic and all Symposium Participants

Conference Program

Thursday, September 25th, 2003

9.00 h

Opening of the Conference
T. Reichert, GUS e.V., Pfinztal, D
P. Trubiroha, BAM, Berlin, D

Greetings
K.-F. Ziegahn, Past President of CEEES

1. Session:

General Considerations on Weathering Tests

Chairman: Jörg Boxhammer

9.30 h

Comparative Examinations under Different Weathering Conditions

E. Pohle, L. Kranner, ofi-Research Institute for Chemistry and Technology, Wien, A

10.00 h

Expensive Weathering Tests – Some Mathematical and Technical Ways to Increase information Obtained by Natural and Artificial Weathering

A. Lichtblau, Clariant GmbH, Gersthofen, D

10.30 h

Coffee Break

Session 2 : Weathering Reference Materials

Chairman: Ignacy Jakubowicz

11.00 h

Reference Materials for Weathering Tests
P. Trubiroha, A. Geburtig, V. Wachtendorf,
BAM, Berlin, D

11.30 h

The New Role of Weathering Reference Materials

Y. Takane, Y. Watanabe, Japan Weathering
Test Center, Choshi City, JAP

12.00 h

Recent Proposals for Weathering Reference Materials as Discussed by DIN and VDA

A. Lüthi, D. Fäh, EMPA Testmaterialien AG,
St. Gallen, CH;
V. Wachtendorf, A. Geburtig, BAM, Berlin, D

12.30 h

Lunch Break

Session 3 : New Test Procedures and Devices

Chairman: Leopold Kranner

14.00 h

**Static and Rotating Xenon Arc Exposures
Compared: Technical Issues, Practical
Considerations & How Different Types of
Hardware Comply to the New Performance-
Based Test Methods**

P. J. Brennan, Q-Panel Lab Products,
Westlake, Ohio, USA

14.30 h

**Time-Lapse Ageing of Technical Textiles
Using a Complex Environmental Test System**

T. Stegmaier, M. Ernst, W. Gündisch,
J. Mavely, V. v. Arnim, G. Schmer-Lioe,
H. Planck, Institute for Textile Technology
and Process Engineering Denkendorf,
Denkendorf, D

15.00 h

Comparison of the Quality of Three Similar Components Using Stepped Stress Environmental Loading

Z. Sherf, A. Katz, A. Manor, P. Hopstone, Rafael, Haifa, IL

Bross, Y. Kanfi, ELGEMS, Haifa, IL

15.30 h

Coffee Break

16.00 h

Accelerated Acid Etch for Automotive Clearcoats: Joint Research on New Test Method Provides Correlation Between Lab & Field

J. Boisseau, D. Cambell, BASF Corporation, USA
W. Wurst, P. J. Brennan, Q-Panel Lab Products, Westlake, Ohio, USA

Presented by U. Schernau, BASF Coatings AG, Münster, D

**Session 4:
Thermal Ageing**

Chairman: Hiltmar Schubert

16.30 h

The Rheological Properties of Aged Polymer Bitumen

V. Rek, Z. M. Barjaktarović, T. H. Grgurić, Dept. of Polymer Engineering and Organic Chemical Technology, University of Zagreb, Zagreb, HR

17.00 h

The Effect of Humidity on Thermal Oxidation of Cellulose

J. Rychlý, L. Matisová-Rychlá, Polymer Institute Slovak Academy of Sciences, Bratislava, SK

17.30 h

End of the Session

19.00 h – 22.00 h

Dinner Menue

Friday, September 26th, 2003

Session 5 :

Weathering of Polymer Products

Chairman: Jan Pospíšil

08.30 h

Service Life Prediction: Fundamentals and Vision

J. W. Martin, National Institute of Standards and Technology, Gaithersburg, USA

09.00 h

Assessment of Service Life of Solar Thermal Components by Accelerated Life Testing

B. Carlsson, K. Möller, SP Swedish National Testing and Research Institute, Borås, S
M. Köhl, M. Heck, Fraunhofer ISE, Freiburg, D
S. Brunold, Institut für Solartechnik SPF, Hochschule Rapperswil, Rapperswil, CH
J.- C. Marechal, CSTB Centre Scientific et Technique du Batiment, F
G. Jorgensen, NREL National Renewable Energy Laboratory, USA

09.20 h

Durability of Polymeric Glazing Materials for Solar Applications

G. Jorgensen, NREL National Renewable Energy Laboratory, USA
B. Carlsson, K. Möller, SP Swedish National Testing and Research Institute, Borås, S
M. Köhl, M. Heck, Fraunhofer ISE, Freiburg, D
S. Brunold, Institut für Solartechnik SPF, Hochschule Rapperswil, Rapperswil, CH

09.45 h

Studies into the Long-Term Durability of Elastomeric Building Sealants

T. Boettger, University of Leipzig, Leipzig, D
H. Bolte, Institute of Building Chemistry, Leipzig, D

10.15 h

Within-Chamber Uniformity of Xenon Test Chambers (Rotating & Static Specimen Mounting Systems Compared)

G. Fedor, P. J. Brennan, Q-Panel Lab Products, Westlake, Ohio, USA
G. Pausch, Pausch Messtechnik GmbH, Haan, D

10.45 h

Coffee Break

Session 6 :
Weathering of Coatings

Chairman: Dieter Kockott

11.00 h

A Reliable Artificial Weathering Test for Wood Coatings

L. Podgorski, CTBA, Bordeaux, F

M. Arnold, EMPA, CH

G. Hora, Fraunhofer WKI, Braunschweig, D

11.30 h

Service Life Prediction for Coatings Concerning Loss of Gloss

O. Guseva, S. Brunner, O. v. Trzebiatowski, P.

Riechner, Swiss Federal Laboratory for

Materials Testing and Research,

Dübendorf, CH

12.00 h

Adaption of the Acid Dew and Fog (ADF) Test for Service Life Prediction of Aircraft Coatings

V. Wachtendorf, U. Schulz, P. Trubiroha, BAM,

Berlin, D

12.30 h

Lunch Break

Session 7 :
General Remarks on Weathering Tests

Chairman: Karl-Friedrich Ziegahn

14.00 h

Decay of Polyamide and Polyethylene Exposed in the UN/ECE ICP Materials Programme

J. Tidblad, V. Kucera, D. Persson, Swedish

Corrosion Institute, Stockholm, Sweden

14.25 h

Polymer Weathering: Dose-Response Functions for Material Properties Changed by Climatic and Air Pollution Effects

T. Reichert, U. Pohnsner, K.-F. Ziegahn,

Fraunhofer ICT, Pfinztal, D

14.50 h

The Influence of Mildew Growth on Automotive Coatings on the Results of Outdoor Weathering

U. Schulz, V. Wachtendorf, A. Geburtig, BAM,

Berlin, D

15.15 h

Characterizing Effects of Weathering Variables Using Accelerated Fractional Factorial Experiments

H. K. Hardcastle, Atlas Material Testing Technology LLC, Miami, USA

15.40 h

Coffee Break

Session 8 :

Materials Testing/Analysis

Chairman: Jozef Rychlý

16.05 h

The Action of Weathering on the Scratch Behaviour of Automotive Clearcoats

A. Geburtig, U. Schulz, BAM, Berlin, D
T. Klimmasch, M. Mechtel, Bayer AG, Leverkusen, D

16.30 h

Impact of Weathering on Chemical and Morphological Changes in Stabilized Polymers

J. Pospíšil, J. Pilař, A. Marek, Z. Kruliš, Institute of Macromolecular Chemistry, Academy of Sciences of the Czech Republic, Prague, CZ
N. C. Billingham, School of Chemistry, Physics and Environmental Science, University of Sussex, Brighton, UK
W. D. Habicher, Institute of Organic Chemistry, TU Dresden, Dresden, D

17.00 h

Chemical Transformations of Poly[methyl(phenyl)silylene] Under Weatherometer Exposure

O. Meszároš, P. Schmidt, J. Pospíšil, S. Nešpůrek, Institute for Macromolecular Chemistry, Academy of Sciences of the Czech Republic, Prague, CZ

17.30 h

Closing Remarks

Registration Form

Gesellschaft für Umweltsimulation e.V.
Sonja Holatka
Joseph-von-Fraunhofer-Str. 7
76327 Pfinzthal
Germany
Fax: +49 (0) 721 / 4640-345

Name/first name

Title

Affiliation

Street

Postal Code/City

Country

Phone

Fax

E-mail

Please type or print

Conference Fee

Registration before August 1st, 2003, € 300.–

Registration after August 1st, 2003, € 350.–

- Payment by money order (invoice requested)
 Cash on arrival
 Accompanying person for Welcome Reception and Dinner, € 60.–

The following room reservation at Renaissance Hotel Prague is requested : (please indicate your reservation)

- | | | | |
|--------------------------|------------------------------|--------------------------|------------------------------|
| <input type="checkbox"/> | Single room/per night | <input type="checkbox"/> | Double room/per night |
| | September 24 and 25: € 140.– | | September 24 and 25: € 155.– |
| | September 26 and 27: € 165.– | | September 26 and 27: € 165.– |
- (The room rates are incl. breakfast, excl. tax)

Arrival Date:

Departure Date:

My reservation is guaranteed by Credit Card:

Expiration date:

Card number:

Date

Signature

Travel

Renaissance Hotel Prague
V. Celnici 7,
11121 Prague,
Czech Republic

The hotel is located downtown in the city of Prague, with walking distance to all old town squares and historic areas.

20 km to Prague International Airport

1 minute walk to the nearest metro:

NAMESTI REPUBLIC

1 minute to the nearest station: MASARYKOVO

1 minute walk to the nearest bus stop

