



INTERNATIONAL CONFERENCE

# PHOTOCATALYSIS

Standardisation and Certification Assisting Commercialization

3<sup>rd</sup> and 4<sup>th</sup> September 2014 Prague

Czech Association for Applied Photocatalysis  
Photocatalysis Industry Association of Japan  
European Photocatalysis Federation  
J. Heyrovsky Institute of Physical Chemistry of the ASCR, v. v. i.  
Technical University of Liberec



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## PRELIMINARY PROGRAM

**NOTE: The conference immediately follows bellow mentioned events:**

**Meeting of ISO TC 206 Working Groups** and several CEN TC 386 Working Groups organized by the Czech Office for Standardisation, Metrology and Testing (COSMT), on the 1st and 2nd September 2014 in Prague

**Joint meeting EPF, PIAJ, CAAP**, focused on the possible mutual co-operation aimed at improvement of photocatalytic products credibility, organised on the 1st and 2nd September 2014 in Prague

**ISO TC 206 plenary meeting** will be held in the conference premises from 9 to 15 h, on the 3rd September 2014

**EPF general assembly** will be held in the conference premises from 13 to 15 h, on the 3rd September 2014

**CAAP** Czech Association of Applied Photocatalysis

**EPF** European Photocatalysis Federation

**PIAJ** Photocatalysis Industry Association of Japan

### 3<sup>rd</sup> September 2014 (Wednesday)

16:10 – 16:15 **Official opening**

16:15 -19:00 **Invited lectures**

The introductory lectures will provide overall picture about the present state of applied photocatalysis and suggest requirements for further developments of this advanced technology.

#### ***Presentations:***

16.15-16.35

Alain Mathurin (EPF, President; [www.photocatalysis-federation.eu](http://www.photocatalysis-federation.eu)).

European Photocatalyst Federation (EPF) - goals, achievements and support to the members. *20 minutes*

16.35-16.55

Tatsuya Imura (PIAJ, Vice President; [www.piaj.gr.jp/roller/en/](http://www.piaj.gr.jp/roller/en/))

Photocatalytic Industry Association of Japan (PIAJ) - goals, achievements and support to the members. *20 minutes*

16.55-17.15

Frantisek Peterka (CAAP, President; [www.fotokatalyza.org](http://www.fotokatalyza.org)).

Czech Association of Applied Photocatalysis (CAAP) - goals, achievements and support to the member. *20 minutes*

17.15-17.35

Yuko Morito (PIRC, board member; [www.rs.tus.ac.jp/pirc/en/index.html](http://www.rs.tus.ac.jp/pirc/en/index.html))

Introduction and goals of Tokyo University of Science Photocatalysis International Research Center ( PIRC). *20 minutes*

17.35-17.55

Koji Takeuchi, (AIST, Chairman of ISO/TC 206/WG 37, Test methods for photocatalytic materials; [https://unit.aist.go.jp/ispd/index\\_en.html](https://unit.aist.go.jp/ispd/index_en.html)).

ISO standardization , overall situation. *20 minutes*

17.55-18.15

Pascal Kaluzny (CEN TC 386 for Photocatalysis, Chairman; [www.tera-environnement.com](http://www.tera-environnement.com))

CEN standardization, overall situation. *20 minutes*

18.15-18.35

Shig Kato (PIAJ representative; [www.rs.tus.ac.jp/pirc/en/index.html](http://www.rs.tus.ac.jp/pirc/en/index.html))

Products certification and labelling in Japan, reasons, relation to standards and results. *20 minutes*

**19.00 bus transfer to Down Town/ Boat trip dinner**



**4th September 2014 (Wednesday)**

8.50 – 9.00 **Opening of the 2<sup>nd</sup> day**

9.00 – 17.00 **Invited lectures**

Program is focused on:

- Testing of commercial products by existing and proposed ISO and CEN methods (experience and results will be discussed).
- Progress and experience with commercialization of photocatalytic products in Europe, Asia and the Czech republic (critical review).
- Technical and legal limits for product performance and successful commercialization in variety of applications

9.00 – 9.15

Sylvie Lacombe (EPF, Vice President scientific committee; [www.photocatalysis-federation.eu](http://www.photocatalysis-federation.eu); CNRS (PAU))

Efficiency of commercial photocatalytic air-purifiers. *15 minutes.*

9.15 - 9.30

Benigno Sánchez (CIEMAT; [www.ciemat.es](http://www.ciemat.es))

First results of the LIFE MINOx-Street project: Monitoring and modeling the NOx removal efficiency with commercial photocatalytic materials. *15 minutes.*

9.30-9.45

Yoshihiro Kubota (Yokohama National University; [www.chem.ynu.ac.jp](http://www.chem.ynu.ac.jp))

Experience of measurements of antibacterial properties by ISO test. *15 minutes.*

*To be confirmed*

9.45-10.00

Joerg Kleffmann (Bergische University Wuppertal; [www.uni-wuppertal.de/en/home.html](http://www.uni-wuppertal.de/en/home.html))  
Critical evaluation of existing ISO test for NOx removal. *15 minutes.*

10.00-10.30 **coffee break**

10.30-12.00 **European commercial products, successes, failures, issues**

10.30-10.45 Mathias Ruinart de Brimont (ICOPAL; [www.icopal.com](http://www.icopal.com)),  
Photocatalytic roof tiles and perspectives. *15 minutes.*

10.45-11.00

G.L. Guerrini (Italcementi; [www.italcementigroup.com](http://www.italcementigroup.com))  
Photocatalytic cement-based materials – The industrial perspective by Italcementi. *15 minutes.*

11.00-11.15

Christian George (IRCELYON; [www.ircelyon.univ-lyon1.fr](http://www.ircelyon.univ-lyon1.fr))  
The Life<sup>+</sup> Project PhotoPAQ - Photocatalytic remediation Processes on Air Quality. *15 minutes.*

11.15-11.30

Karsten Felsvang (PHOTOCAT; Senior Vice President; [www.photocat.net](http://www.photocat.net))  
Industrial Experience- indoor and outdoor- with application of a new transparent photocatalyst. *15 minutes.*

11.30-11.45

Stephan Bloess (KRONOS INTERNATIONAL, Inc.; Manager Special Products;  
[www.kronostio2.com](http://www.kronostio2.com)), Photocatalytical Titania and their Perspectives. *15 minutes.*

11.45-12.00

Josef Krýsa (Institute of Chemical Technology, Prague): Smart inks as a standard tool for commercial photocatalytic surfaces (<http://www.fp7-intec.eu>)

12.00-13.00 **buffet lunch**

13.00 – 15.00 **Asian commercial products, successes, failures, issues**

13.00-13.15

A. Oyakawa (Taiyo Kogyo; [www.taiyokogyo.com](http://www.taiyokogyo.com))  
Saint Gobain – Taiyo cooperation-success story of mutual contacts. *15 minntes.*

13.15-13.30

Junji Kameshima (TOTO, <http://gb.toto.com>)

13.30-14.30

Introductions of four companies from China, Taiwan, South Korea and Malaysia  
*To be specified*

14.30-15.00 **Discussion**

15.00-15.45 **Czech commercial products, successes, failures, issues**

15.00-15.20

Jan Prochazka (Advanced Materials-JTJ; president; [www.advancedmaterials1.com](http://www.advancedmaterials1.com))  
Commercialization of photocatalytic coatings. *20 minutes.*

15.20-15.35

Lubos Mrazek, J. Jirkovsky (Teluria)  
Photoactive composite material and its practical application. *15 minutes.*

15.35-15.50

Milos Hersalek, J. Subrt (RETAP)  
Heating systems with air purification function. *15 minutes.*

15.50-16.10 coffee break

16.10-16.40

Lubomir Spanhel (University of Rennes; [www.univ-rennes1.fr/english/home/](http://www.univ-rennes1.fr/english/home/))  
Novel materials, possible development, state of art. *20 minutes.*

16.40-16.50

Frantisek Peterka (CAAP, [www.fotokatalyza.org](http://www.fotokatalyza.org))  
New important standard proposals introduction-ageing photoactive material. *10 minutes.*

16.50-17.05

Stephan Bloess (German Federation for Applied Photocatalysis; President; [www.angewandte-photokatalyse.de](http://www.angewandte-photokatalyse.de); EPF European Photocatalysis Federation; Vice-President international committee; [www.photocatalysis-federation.eu](http://www.photocatalysis-federation.eu)), CEN TS 16599 and the German Label for Photocatalytical Products. *15 minutes.*

17.05-17.25

How to set up criteria for product certificate? Discussion between Japanese and European experts. *20 minutes.*

17.25 -17.30 **Closure**