

AMGI/EURASAP Workshop Zagreb, May 24-26, 2007

Air Quality Management, Monitoring, Modeling, and Health Effects



AMGI



The workshop is partly subsidized by the Croatian Ministry of Environmental Protection, Physical Planning and Construction.

WORKSHOP OBJECTIVES

- Provide background on different aspects of science and policy for air quality improvement at local, regional, and global scales.
- Share information among different disciplines in the atmospheric, meteorological, health sciences.
- Provide a public forum for explaining the nature and potential impacts of waste-to-energy facilities and other stationary industrial sources.

Prof. Peter Builtjes, TNO, Apeldoorn, the Netherlands will chair the workshop.

Local organiser is Zvezdana Bencetić Klaić, AMGI, Department of Geophysics, Faculty of Science, University of Zagreb

The workshop will begin on Thursday, May 24, 2007, 08:00.

The workshop will end on Saturday, May 26, 2007, 12:30.

The workshop will be held at the Andrija Mohorovičić Geophysical Institute (AMGI), Department of Geophysics, Faculty of Science, University of Zagreb, Horvatovac bb.

FORMAT

- Two full days of scientific presentations and discussions. First day consists of overview presentations from U.S. scientists to provide an update on recent knowledge. Second day consists of updates on air quality policies and sciences

from guest and Croatian scientists, regulators, and industrialists. For longer presentations (40 min), about 10 minutes will be devoted to questions and discussion.

- The morning seminar on day three regarding emissions, transport, ambient concentrations and potential health effects from stationary sources will be presented in layman's terms in Croatian, and will be open to both the public and members of the press.

| Day 1 | | 24 May 2007 |
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| 8:00-8:30 | Registration | |
| 8:30-8:40 | Introduction | Peter Bultjes and Zvezdana Klaić |
| 8:40-9:00 | Major Air Quality Concerns in Croatia | Zvezdana Klaić |
| 9:00-9:20 | Major Air Quality Concerns in Europe | Peter Bultjes |
| 9:20-9:45 | Framework for U.S. Air Quality Management and Decision-making | Judith C. Chow |
| 9:45-10:10 | Pollutants of Concern in the North America and Europe | John G. Watson |
| 10:10-10:40 | Health Effects of Suspended Particulate Matter | Judith C. Chow |
| 10:40-11:00 | Break | |
| 11:00-11:30 | Effects of Pollution on Visibility and the Earth's Radiation Balance | John G. Watson |
| 11:30-12:15 | Relating Nearby Point Source Emissions to Ambient Concentrations by Dispersion Modeling | <u>Darko Koracin and Vlad Isakov</u> |
| 12:15-13:15 | Lunch | |
| 13:15-14:00 | Ambient Monitoring Networks and Monitoring Strategies | Judith C. Chow |
| 14:00-14:45 | Characterizing Source Emissions | John G. Watson |
| 14:45-15:15 | Regional Scale Modeling of Air Pollution | Darko Koracin and Julide Koracin |
| 15:15-15:30 | Determining Alternative Futures, Urban Development Effects on Air Quality | Julide Koracin and <u>Darko Koracin</u> |

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| 15:30-15:45 | Break | |
| 15:45-16:30 | Receptor Models for Air Quality Management | John G. Watson |
| 16:30-17:15 | Panel Discussion: Research and Regulatory Needs for Croatia | Peter Builtjes Zvezdana Klaić Darko Koračin Judith C. Chow John G. Watson |

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| Day 2 | 25 May 2007 |
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| 9:00-9:15 | Introduction and Outline of Program | Peter Builtjes and Zvezdana Klaić |
| | AIR QUALITY MONITORING IN CROATIA AND ITS CITES 1.1-1.3 | |
| 9:15-9:35 | 1.1 Air Quality Monitoring in Croatia | Vladimira Vadić |
| 9:35-10:15 | 1.2 Croatian Air Quality Monitoring Strategy: 2002 – Onward | Sonja Vidić |
| 10:15-10:35 | 1.3 Ozone stations evaluation by frequency analysis | Nenad Kezele, <u>Leo Klasinc</u> , Sean P. McGlynn, Matevž Pompe and Marjan Veber |
| 10:35-10:55 | Permitting of Industrial Facilities in Croatia | Damir Rumenjak |
| 10:55-11:10 | Break | |
| | EMISSIONS INVENTORIES 2.1-2.2 | |
| 11:10-11:30 | 2.1 Preparation of Croatian Annual Emissions Inventory Report | Davor Vešligaj |
| 11:30-12:10 | 2.2 Emission Inventories in West of Sweden with Evaluation Against Measurements and Dispersion Model Calculations | Leif Enger |
| 12:10-13:10 | Lunch | |
| | HEALTH EFFECTS 3.1-3.2 | |
| 13:10-13:30 | 3.1 Effect of O ₃ and PM ₁₀ on Mortality Increase During a Heatwave | Ana Alebić-Juretić, Tomislav Cvitaš, <u>Nenad Kezele</u> , Leo Klasinc, Gordana Pehnc and Glenda Šorgo |

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| 13:30-13:50 | 3.2 Health Impact Assessment of Air Pollution on Zagreb Population | Krešo Šega |
| | RECENT AIR QUALITY STUDIES 4.1-4.4 | |
| 13:50-14:10 | 4.1 Some Recent Findings About Very Stable Boundary layers | Branko Grisogono |
| 14:10-14:50 | 4.2 Dispersion due to meandering | Dean Vickers, Larry Mahrt and <u>Danijel Belušić</u> |
| 14:50-15:10 | 4.3 EMEP4HR-Project Overview – Atmospheric Forcing and Nesting | Lukša Kraljević |
| 15:10-15:30 | Break | |
| 15:30-16:00 | 4.4 Vertical Diffusion Verification in the EMEP model | Amela Jeričević |
| 16:00-16:20 | European Union Initiatives and Requirements: Air Quality Assessment as a Common and Obligatory Policy Relevant Tool | Sonja Vidič |
| 16:20-16:40 | Development of the Atmospheric Lagrangian Particle Stochastic (ALPS) Dispersion Model | Amela Jeričević |
| 16:40-17:10 | Open Discussion: Existing Interactions Among Croatia Institutes and Other Entities; How to Better Collaborate and How to Improve the Air Quality | Moderator: Branko Grisogono |

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| Day 3 | 26 May 2007 | |
| | Public Seminar | |
| 9:00-9:15 | Introduction and Outline of Program | Zvezdana Klaić |
| 9:15-9:35 | Ecotoxicological Benefits of the Thermal Waste Treatment Plant in Zagreb (in Croatian) | Zlatko Milanović Canceled |
| 9:35-10:00 | Community Concerns About Emissions | Audience |
| 10:00-10:15 | Break | |
| 10:15-11:00 | Example of a Power Plant and Other Source Health Effects Study in Tong Liang, China | Judith Chow and <u>Darko Koracin</u> |
| 11:00-11:45 | Sources, Concentrations and Health Effects of Ultrafine Particles | Judith Chow /translation from Darko Koracin |
| 11:45-12:30 | Planning for the Future, Questions and Answers | Moderators: Darko Koračin and Zvezdana Klaić |

Accommodation

We have made a special arrangement with the hotel Meridijan 16 <http://www.meridijan16.com/index-eng.html>", which is located close to the station of airport buses (Autobusni kolodvor).

Address:

Ulica grada Vukovara 241

10000 Zagreb

Tel.: +385 1 60 65 200

Fax: +385 1 60 65 201

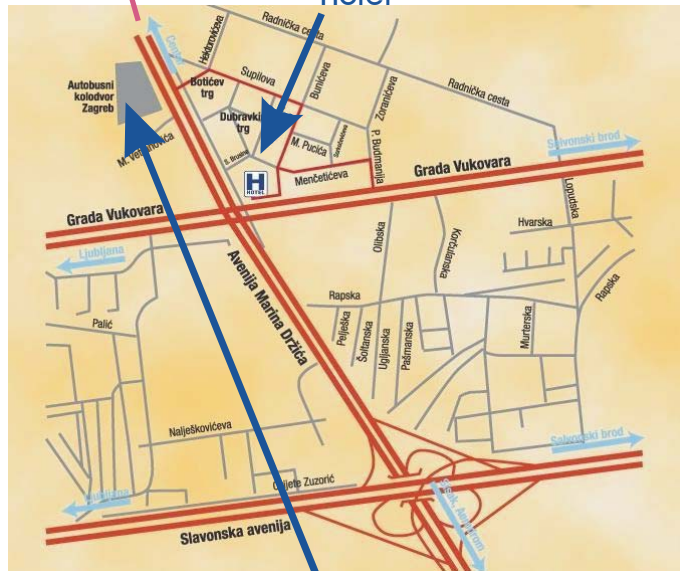
E-mail: desk@meridijan16.com

A limited number of rooms (breakfast included) are available. In order to book a hotel room, please go to the web site <http://www.meridijan16.com/index-eng.html>, link: Reservation. In the Notes window refer to the booking AMGI/EURASAP workshop. The price for a single and double room is 448 kn - (around 60 Euro) and 602 kn (around 80 Euro), respectively. However, note that double rooms have only French beds.

DEADLINE for hotel booking: **April 15th, 2004.**

City centre (Trg Bana
Josipa Jelacica, Kaptol)

Meridijan 16
Hotel



Airport bus terminal
(Autobusni kolodvor)

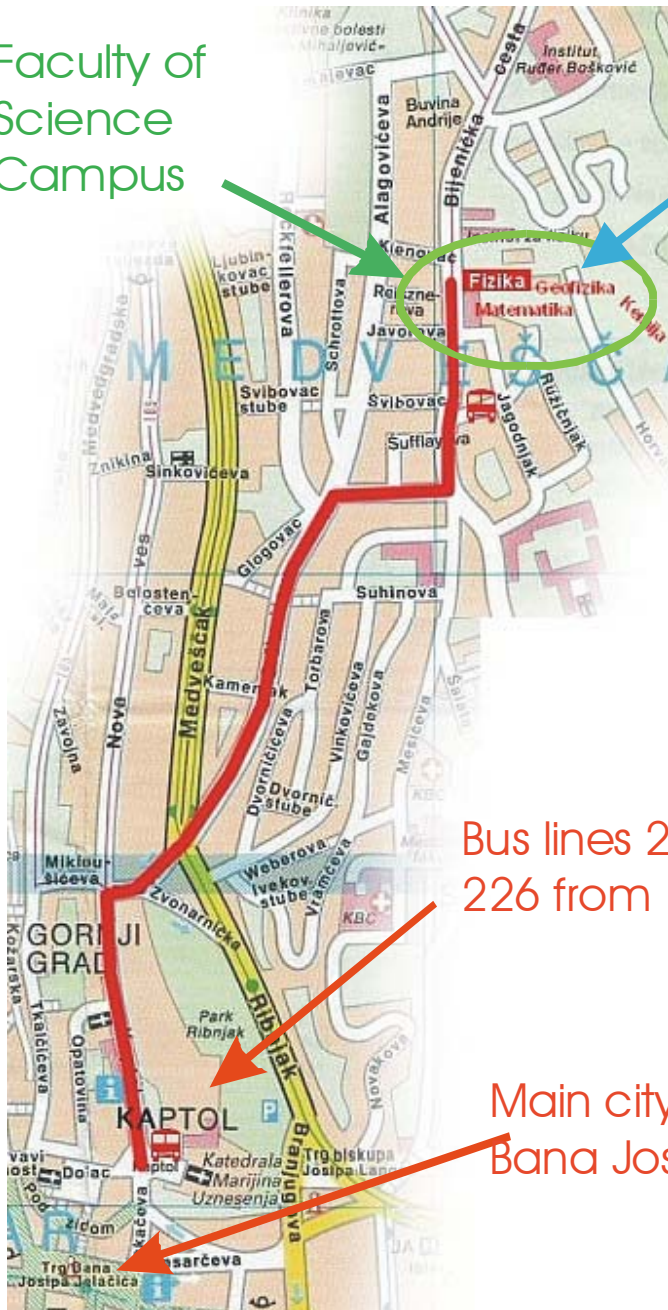
Workshop venue

The workshop will be held at the Andrija Mohorovičić Geophysical Institute (AMGI), Department of Geophysics, Faculty of Science, University of Zagreb.

Address of workshop venue:
Horvatovac bb
10000 Zagreb, Croatia

Faculty of Science Campus

Geophysical Institute Building (3 stations from Kaptol)



Bus lines 201, 106 and 226 from Kaptol

Main city square (Trg Bana Josipa Jelacica)