Sustainable solutions to combat climate change: contribution of engineers and reduction of air pollutants

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<th>Time</th>
<th>Activity</th>
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<td>Over all Event Chair</td>
<td>Lidia Zakowska, Prof. Politechnika Krakowska, Poland</td>
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<td>World Federation of Engineering Organizations (WFEO) – Committee for Engineering and the Environment (CEE) and Committee for Women in Engineering (WiE) / Polish Federation of Engineering Associations (FSNT–NOT) / Polish Association of Engineers and Technicians of Transportation (SITK RP)</td>
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<td>Co-Organizers</td>
<td>Darrel Danyluk, Engineers Canada / World Federation of Engineering Organizations (WFEO) Committee for Engineering and Environment (CEE) Tilo Arnhold, Leibniz Institute for Tropospheric Research (TROPOS), Germany</td>
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<td>05 minutes</td>
<td>Introducing to the session topic and speakers, sustainable goals in engineering</td>
<td>Lidia Zakowska – Politechnika Krakowska, Poland WFEO CEE / FSNT NOT / SITK RP</td>
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Session 1: Sustainable Engineering Solutions
Contribution of engineers to climate change - engineering feasibility of mitigative measures.

The need to enhance the meteorological and engineering interface to provide the necessary data for sound science based decision making.

Emission-free coal-based power plant with a component for grid energy storage and energy recovery in the LNG regasification process.

Energy and climate plans as a key engineering tool to create evidence based dialogue.

Organiser: WFEO CEE / FSNT NOT / SITK RP
World Federation of Engineering Organizations (WFEO) – Committee for Engineering and the Environment (CEE) / Polish Federation of Engineering Associations (FSNT–NOT) / Polish Association of Engineers and Technicians of Transportation (SITK RP)

Eng. David Lapp, Canada / Engineers Canada, World Federation of Engineering Organizations (WFEO), Committee for Engineering and Environment (CEE)

Radosław Wojak, Mariusz Wnek, Poland / Strategist – Clean World Energy Systems (CWES) Ltd

Session 2: Sustainable Solutions
Contribution of scientists to reduce air pollution and combat climate change

Short-lived Climate Forcers: Important for Air Quality and Climate

Black Carbon in Europe: Mitigation Priorities for Health and Climate

ACTRIS and EUROCHAMP-2020: Long-term Monitoring and Process Studies for a changing Atmosphere

Panel Discussion
Future actions in our particular field that will contribute to climate change and air pollution reduction

Engineering responsibility. Transportation, energy, air pollution. Questions welcome.

Organiser: Forschungszentrum Jülich (FZJ) / Institute for Advanced Sustainability Studies (IASS) / Leibniz Institute for Tropospheric Research (TROPOS)

Andreas Wahner, Forschungszentrum Jülich (FZJ)

Kathleen A. Mar, Institute for Advanced Sustainability Studies (IASS Potsdam)

Hartmut Herrmann, Leibniz Institute for Tropospheric Research (TROPOS)

Moderator: Prof. Eng. Lidia Zakowska
Panelists:
- Eng. Darrel Danyluk, Engineers Canada / WFEO Committee for Engineering and the Environment
- Eng. Tadeusz Bąk, SITK, Poland
- Prof. Tadeusz Łoboda, Poland
- Prof. Jan Popczyk, Poland
- Eng. Amelia Trachsel, INWES / WFEO Women in Engineering
- Andreas Wahner, Forschungszentrum Jülich (FZJ)
- Kathleen A. Mar, Institute for Advanced Sustainability Studies (IASS Potsdam)
- Hartmut Herrmann, Leibniz Institute for Tropospheric Research (TROPOS)

Closing remarks