

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



Time	Activity	Speakers
	Over all Event Chair	Lidia Zakowska, Prof. Politechnika Krakowska, Poland 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)
	Co-Organizers	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
05 minutes	Introducing to the session topic and speakers, sustainable goals in engineering	Lidia Zakowska – Politechnika Krakowska, Poland WFEO CEE / FSNT NOT / SITK RP



## 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

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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

Andy Webster, Fellow Institution of Mechanical Engineers and chair of The Future Climate – Engineering Solutions group

## 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

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)

## 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.

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



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