



# **International Laboratory for Air Quality and Health**

**WHO Collaborating Centre**

## **ANNUAL REPORT 2022**

**INTERNATIONAL LABORATORY FOR AIR QUALITY  
and HEALTH (ILAQH)**

**WORLD HEALTH ORGANISATION  
COLLABORATING CENTRE FOR AIR QUALITY AND  
HEALTH**

## 1. Introduction

The International Laboratory for Air Quality and Health (ILAQH) is part of the School of Earth and Atmospheric Sciences (EAS), Institute for Health and Biomedical Innovation (IHBI) and the Institute for Future Environments (IFE), at the Queensland University of Technology (QUT). ILAQH undertakes research, postgraduate training and consultancy in the complex, interdisciplinary field of air quality and its impact on human health, with a specific focus on ultrafine and nanoparticles. The three main aspects of ILAQH research activities are:

- Comprehensive characterisation of indoor and outdoor air, including emission sources.
- Integrated health and environmental risk assessments.
- Strategies for controlling and managing air pollutants.

To address the challenge related to the interdisciplinary nature of air pollution and its impact on human health, academics from a number of Faculties within QUT are involved with the programs undertaken by the ILAQH, including discipline areas such as: physics, chemistry, microbiology, mathematics, public health and engineering. The expertise of the ILAQH personnel is strengthened by close collaboration with a number of government and non-government organizations. Through joint research, lecturing and postgraduate student supervision, the ILAQH collaborates closely with a number of North American, European and Asian research and tertiary organizations.

The facility is equipped with state-of-the-art instrumentation for aerosol generation, mass and number size classification; monitoring of atmospheric gases; real time biological studies; vehicle emission testing, filter testing, lung deposition studies, and computer modelling. Access to electron microscopy and analytical chemistry facilities is available through the links existing within the Science and Engineering Faculty.

The ILAQH has built up a scientific program, which is recognised internationally through a high publication rate in reputable international journals, visits by scholars from around the world to the facility, and invitations to the ILAQH key researchers to address international conferences and participate in international initiatives. In Australia both the Queensland State and the Federal government and non-government organizations regularly seek the expertise of this facility.

The ILAQH is a Collaborating Centre of the World Health Organization on Research and Training in the field of Air Quality and Health, since 2004.

## 2. Collaboration with the World Health Organisation (WHO)

In July 2019, the ILAQH was re-designated for the third time as a World Health Organization (WHO) Collaborating Centre for Air Quality and Health.

Distinguished Professor Lidia Morawska has made a sustained longstanding and ongoing contribution in her service as an advisor to the WHO.

As a **collaborator and adviser to the WHO**, D/Prof Morawska has contributed to all WHO air quality-related guidelines over the past two decades. She Co-Chairs the Guideline Development Group responsible for the air quality guidelines, the most important document on which nations base their air quality standards. The new [WHO Global Air Quality Guidelines](#) (2021) has set new directions for air pollution management and, includes UFP, based on the cutting-edge research conducted over two decades done by D/Prof Morawska and her team, which has influenced policy makers. She has also contributed to the Best Practiced Statement for UFP in the new WHO Global AQG (2021), based on the White Paper titled, "[Ambient ultrafine particles: evidence for policy makers](#)". In addition, the WHO policy range of initiatives she has been involved with over the years, includes:

- (i) Work on international WHO Guideline documents, serving as the main reference point for the international community, including WHO Guidelines for: Air Quality (2021, she is Co-Chairing this); *Global Platform on Air Quality* (in preparation); *Healthy Housing 2018*; *Household Combustion, 2014*; *Indoor Air Quality: Selected Pollutants, 2010*; *Indoor Air Quality Guidelines on Dampness and Mould, 2009*; *Air Quality, 2005*; *Concentration and Exposure-Response Measurements of Fine/Ultrafine Particulate Matter, 2002*; and *Dust Prevention in Workplaces, 1996*.
- (ii) Work towards improvement of the quality of air in developed/developing countries through assisting governments in forming national air quality legislation in major epidemiological studies on air quality impacts.
- (iii) Participating in WHO Emergency Outbreak Response Groups (e.g., 2003 SARS, and 2021 COVID-19).

In 2022, Distinguished Professor Morawska was invited by the WHO as a consultant on air pollution, to participate in the following activities:

- Work on the **WHO Health Emergencies Program (WHE) 'ARIA - Airborne Risk Indoor Assessment – Technical Working Group'**, led by Dr. Luca Fontana is continuing in 2022.
- Participated and gave a presentation in the '**WHO Collaborating Centers working on air quality and health issues**', held on 21 January 2022.
- Participated (virtually) in a meeting of the **WHO Collaborating Centres on Air Quality and Health**, hosted from Geneva on the 26 January 2022.
- Conducted **data analysis** and **wrote a report** on available air quality data and potential sources/sectors and identification of **promising air quality measures in Lao PDR**, 16 June 2021 to 28 February 2022.
- Invited to join the '**TTAT Working Group for a Global Technical Consultation on the transmission of respiratory pathogens through the air**' on 21 March 2022. Participated (virtually) in the **TTAT Working Group 'Meetings for technical consultation to develop a global consensus document for defining, describing and**

**quantifying how infectious respiratory pathogens are transmitted through the air'**, the first meeting held on 12 May and the second on 17 June 2022 and has been contributing to the revisions of the text of the document.

- Participated in the **'WHO WPRO Innovation Forum in the Western Pacific Region: Scaling for Impact'**, 28-29 April 2022.
- Contributed to **wildfires evidence review** and a companion document for health professionals in June-July 2022. Then conducted a final review of scoping paper and document for health professionals in October 2022.
- Participated virtually in the **Session to learn and discuss how to use the real time monitoring - KOALA unit and data management**, hosted by Dr Dilip and Mr Park Yongjoon (VJ), working in the health information system unit, WHO Laos, 1 September 2022.
- Participated in the **2<sup>nd</sup> CCE TAG meeting**, hosted in Seoul and virtually, Republic of Korea, 29 September 2022.
- Member of and participating in the **Australian WHO CC Network Capacity Mapping Project**.
- Participated and gave a presentation in the **Fourth Regional Forum of the WHO Collaborating Centers in the Western Pacific**, held in Siem Reap, Cambodia, but attended and virtually, 28-29 November 2022.
- Reviewed a draft document for the **TATT** consultation titled, **"Definition of the mechanisms, modes and terminology relating to the transmission of infectious respiratory particles through the air"**, November 2022.
- Reviewed a draft report titled, **"Overview of Methods to Assess Population Exposure to Ambient Air Pollution"** December 2022.

### 3. ILAQH Researchers in 2022

#### Director

Distinguished Professor Lidia Morawska, PhD (School of Earth and Atmospheric Sciences)

#### Academic Staff

Professor Godwin Ayoko (School of Earth and Atmospheric Sciences)

Professor Zoran Ristovski (School of Earth and Atmospheric Sciences)

Dr Branka Miljevic (School of Earth and Atmospheric Sciences)

Dr Graham Johnson (School of Earth and Atmospheric Sciences)

#### Research Fellows / Associates

Dr Congrong He

Dr Joel Alroe

Dr Rohan Jayaratne

Dr Sadegh Niazi

#### Research Fellowships

Dr Jenny Wang

#### Associated Academic Adjunct Staff

Adjunct Professor Anne Steinemann (James Cook University, Australia)

Adjunct Professor Giorgio Buonanno (University of Cassino, Italy)

Adjunct Professor Hai Guo (Hong Kong Polytechnic University, Hong Kong)

Adjunct Professor Heidi Salonen (Aalto University, Finland)

Adjunct Professor Laurie Buys (Southern Cross University)

Adjunct Professor Paul Jagals (University of Queensland)

Adjunct Professor Phong Thai (University of Queensland)

Adjunct Professor Tunga Salthammer (Fraunhofer WKI, Germany)

#### Research Support Officer

Ms. Chantal Labbe

#### Doctoral Students

Alexander Mikszewski (Supervisor: Lidia Morawska)

Basant Pradhan (Supervisor: Lidia Morawska with Rohan Jayaratne)

Behnaz Alinaghypour (Supervisor: Zoran Ristovski with Branka Miljevic)

Changda Wu (Joint QUT-JNU student, Supervisor: Zoran Ristovski with Branka Miljevic)

Haydn Trounce (Supervisor: Zoran Ristovski with Branka Miljevic)

Lingli Guo (Supervisor: Lidia Morawska)

Mojibul Sajjad (Supervisor: Richard Brown with Zoran Ristovski)

Parwath Pathirathna (Supervisor: Lidia Morawska)

Robert Groth (Supervisor: Graham Johnson with Zoran Ristovski)

Ruiwen Wang (Joint QUT-JNU student, Supervisor: Zoran Ristovski with Branka Miljevic)

Savinda Heshani (Supervisor: Lidia Morawska with Rohan Jayaratne)

Yik Sze Lau (Supervisor: Branka Miljevic with Zoran Ristovski)

Zachary Brown (Supervisor: Branka Miljevic with Zoran Ristovski)

#### Doctoral Students (enrolled in other QUT Schools and other Universities)

Abdollah Baghai Daemei (Supervisor: Sara Omrani QUT with Lidia Morawska)

G M Hasan Shahariar (Supervisor: Richard Brown QUT with Zoran Ristovski)

Jimmy Hilly (Supervisor: Andrew Dansie UNSW with Lidia Morawska)

### **Masters Students**

Samuel Gordon Putland (Supervisor: Branka Miljevic with Zoran Ristovski)

### **Honours Students**

None.

### **Postgraduate Completions, PhD**

Eva Johanna Horchler (Joint QUT-JNU student, Supervisor: Zoran Ristovski with Branka Miljevic)

Khanh Long Tran (Supervisor: Lidia Morawska with Rohan Jayaratne)

Marc van Beest (Supervisor: Nunzio Motta QUT with Lidia Morawska)

Meng Xiu (Supervisor: Lidia Morawska with Rohan Jayaratne)

Priyanka Arora (Supervisor: Zoran Ristovski)

Sadegh Niazi (Supervisor: Graham Johnson with Zoran Ristovski)

### **Postgraduate Completions, Masters**

Raziya Sultana Chowdhury (Supervisor: Godwin Ayoko with Zoran Ristovski and Branka Miljevic)

## Destination of our Graduates (Current Positions)

### Academic Positions in Top International Universities / Organisations



## 4. Major Developments

- Professor Lidia Morawska was invited to participate in the White House Virtual Event – “[Let’s Clear the Air on COVID: An OSTP Discussion on Clean Indoor Air](#)”, held on the 29 March 2022. This event encouraged all people to increase their air awareness and take simple, but powerful, actions to improve indoor air quality.
- Following a referral on 1 September 2022 from the Minister for Health and Aged Care, the Hon Mark Butler MP, the Committee inquired into and report on Long COVID and Repeated COVID Infections. Professor Lidia Morawska submitted an enquiry to the Standing Committee on Health, Aged Care and Sport’s inquiry into long COVID and repeated COVID infections, which has been published on the [inquiry’s webpage](#) (#304).




## 5. Awards and Achievements

- **Distinguished Professor Lidia Morawska** who has been recognized as a leader in the field of **Environmental Sciences** in the **Research 2023** magazine.
- **Distinguished Professor Lidia Morawska** received **National Academy of Science Matthew Flinders Medal** in **2022**.
- **Dr Xiaoting Liu** was selected in 2022 as a recipient of a **Faculty of Science Executive Dean’s Commendation for Outstanding Doctoral Thesis Award for 2021!**
- Many congratulations to **Distinguished Professor Lidia Morawska** who has been awarded by the **American Association for Aerosol Research (AAAR), the 2022 Susanne V. Herring Award**. The Herring Award recognizes outstanding contributions to aerosol science that have an impact on public health, the built environment, or the global ecosystem.
- Many congratulations to **Distinguished Professor Lidia Morawska** who ranked **13 in Australia** and **435 in the world**, in the [Research.com](#) – [Ranking of Top 1000 Female Scientists in the World](#).




Research.com Upcoming Conferences ▾ Best Conferences ▾ Best Journals ▾ Best Universities ▾ Best Scientists ▾

Home / Best Scientists - Environmental Sciences / Lidia Morawska



### Lidia Morawska

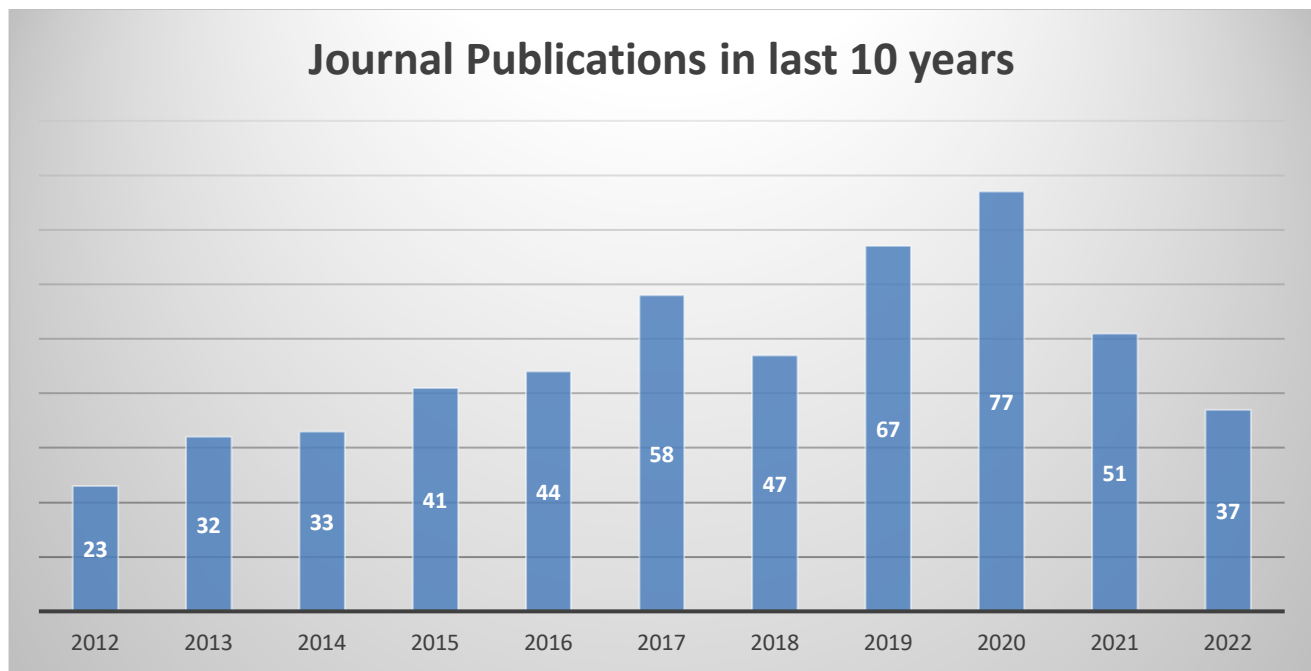
📍 Queensland University of Technology  
Australia



**D-Index & Metrics**

Discipline name	D-index	Citations	Publications	World Ranking	National Ranking
Environmental Sciences	87	29,303	422	217	7
Best female scientists	113	115,433	855	435	13

## 6. Peer Reviewed Publications



**Figure 1.** ILAQH Refereed Publications per Year (2012-2022)

## 7. Competitive Grants (Granted)

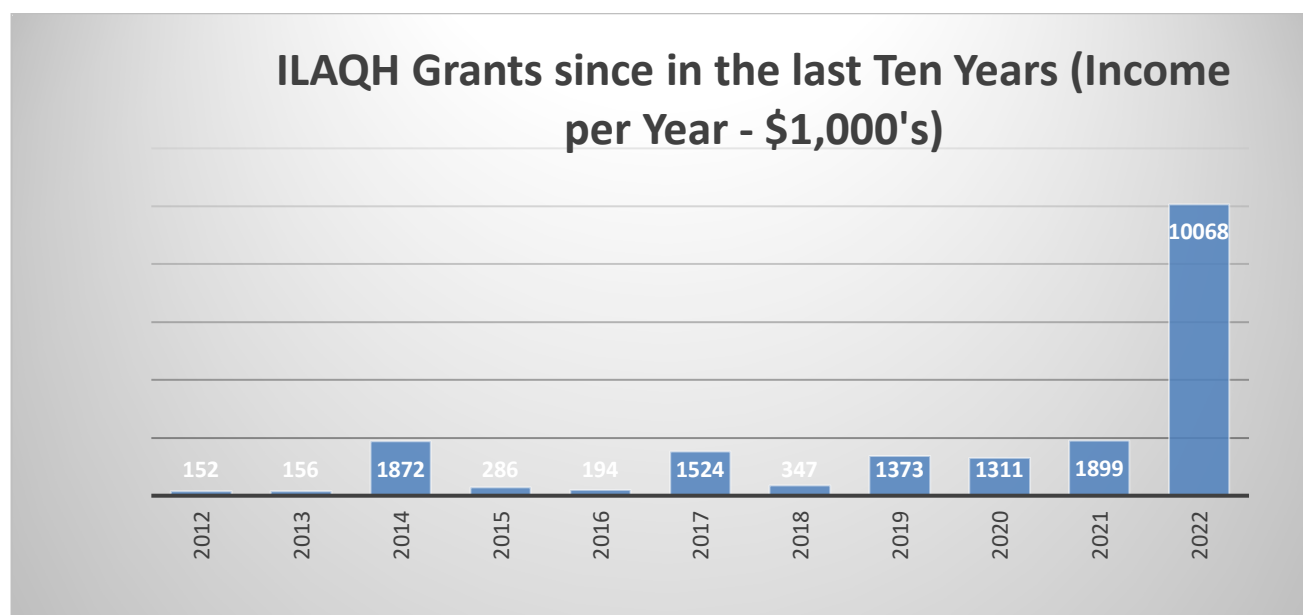


Figure 2. ILAQH grant income distribution per year (2012-2022)

### Australian Competitive Grants (Awarded)

#### Administered by QUT (QUT Lead-CI)

**Project Scheme: ARC Laureate Fellowship (2023-2028)**

**Chief Investigators:** Lidia Morawska

**Awarded:** \$3,450,896

**Project Title:** *My Air Space: the Science of Buildings that Make us Thrive (FL220100082)*

**Project Scheme: ARC Industrial Transformation Training Centres (2023-2028)**

**Chief Investigators:** Lidia Morawska, Lindy Burton, Guy Marks, Jason Monty, Zoran Ristovski, Duzgun Agdas, Richard Brown, Geoffrey Hanmer, Thomas Rainey, Robyn Schofield, Bo Xia, Marc Dunn, Anders Hedström, Robyn Hendry, Patricia Keady, Gregory Picker, Graeme McLeish, Heike Neumeister-Kemp, Brendan Pejovic, Ivi Sims, Tim van der Graaf, Zubin Varghese, Scott Wenger, Giorgio Buonanno, Prashant Kumar, Tunga Salthammer, Olli Seppänen, Boguang Wang, Maosheng Yao

**Australian Universities:** Queensland University of Technology, The University of New South Wales, The University of Melbourne

**Australian Partners:** Advanced Robotics Manufacturing Hub, Air Conditioning and Refrigeration Equipment Manufacturers (AREMA), Aspen Medical, Australian Institute of Refrigeration, Air conditioning and Heating (AIRAH), Bulcs Holdings, Mycotec, QED Environmental, Samsung Electronics Australia, WHP Architects

**International Partners:** Aerosol Devices Inc., IAQ Sweden AB, Philips Domestic Appliances, Trane Technologies, Federation of Finnish HVAC Societies

**International Universities:** Fraunhofer WKI, Jinan University, Peking University, University of Cassino and Southern Lazio, University of Surrey

**Awarded from the ARC:** \$4,939,486 (\$565,000 from Partner contributions)

**Project Title:** *ARC Training Centre for Advanced Building Systems Against Airborne Infection Transmission (IC220100012)*

**Project Scheme: Department of Defence, Defence Materials Technology Centre (DMTC) Plume Modelling (2022-2024)**

**Chief Investigators:** Zoran Ristovski

**Awarded:** \$40,000

**Project Title:** *DMTC Project 14.148: Fast, high-resolution contaminant prediction model for Australian urban environments*

**Project Scheme: ARC Linkage Infrastructure Equipment and Facilities (2023-2024)**

**Chief Investigators:** Branka Miljevic, Zoran Ristovski, Lidia Morawska, Godwin Ayoko, Robyn Schofield, Simon Alexander, Clare Murphy, Daniel Harrison, Marc Mallet, Sonya Fiddes

**Organisations:** Queensland University of Technology, Southern Cross University, The University of Melbourne, The University of Tasmania, The University of Wollongong, Australian Antarctic Division

**Awarded:** \$831,200 with an additional \$602,000 cash contributions from partners

**Project Title:** *Real-time mass spectrometry for advanced aerosol chemical characterisation (LE230100008)*

**Administered by external organisations (QUT Co-CI)**

**Project Scheme: ARC Linkage Infrastructure Equipment and Facilities (LIEF LE220100103) (2022-2023)**

**Chief Investigators:** Alessandro Toffoli, Ian Young, Robyn Schofield, Luke Bennetts, Michael Meylan, Alexander Fraser, Delphine Lannuzel, Marc Mallet, Zoran Ristovski, Branka Miljevic, Petra Heil, Robert Massom, Melita Keyword, Jennifer Parnell, Jeffrey Hawkins

**Awarded:** \$453,389 (\$3,000 to QUT)

**Project Title:** *An Autonomous Sea State Monitoring System for Australia's Research Fleet*

**Project Scheme: NHMRC Centres for Research Excellence (2022-2027)**

**Chief Investigators:** Fay Johnson, Guy Marks, Lidia Morawska, Yuming Guo, Shyamali Dharmage, Sotiris Vardoulakis, Richard Norman, Geoffrey Morgan, Luke Knibbs, Graeme Zosky

**Awarded:** \$2,500,000

**Project Title:** *Centre for Safe Air (2015584)*

**Project Scheme: NHMRC-European Union Collaborative Research Grant Scheme (2022-2026)**

**Administering Organisation:** Led by Melissa Brinums, University of Queensland

**Chief Investigators:** Melissa Brinums, Kevin Thomas, Zoran Ristovski, Lidia Morawska, Jochen Mueller

**Awarded:** \$499,818.80 total (\$238,376.40 UQ; \$238,376.40 QUT; \$23,066.00 Helsinki)

**Project Title:** *Identification of chemical and biological determinants, their sources, and strategies to promote healthier homes in Europe (INQUIRE) (2017837)*

**Project Scheme: NHMRC MRFF Innovation Grant (2021-2022)**

**Administering Organisation:** Led by Yuming Guo, Monash University

**Chief Investigators:** Yuming Guo, Shanshan Li, Rachel Huxley, Shyamali Dharmage, Yenyang Lim, Helen Rawson, Lidia Morawska, Joanne Mckenzie, Joanne Ryan, Sean Cain, Zanfina Ademi

**Awarded:** \$200,000

**Project Title:** *Better Environment, Healthier Ageing*

**Project Scheme: NHMRC Special Initiative in Human Health Environmental Change (2023-2028)**

**Chief Investigators:** Kerrie Mengersen, Sotiris Vardoulakis, Mark Howden, Christine Phillips, Lidia Morawska and 50 more investigators

**Awarded:** \$466,800

**Project Title:** *Healthy Environments And Lives (HEAL) ċ National Research Network (2008937)*

## 9. Other Public Sector / New Consultancy Research Projects Commenced

**Project Scheme:** NSW Department of Planning and Environment

**Chief Investigators:** Lidia Morawska

**Awarded:** \$17,832

**Project Title:** Transfer of 10 KOALA units to NSW DPE

## 9. Conference Presentations (Keynote/Plenary)

### Lidia Morawska

- Invited Plenary Presentation, '**SIIAQ Webinar, '30<sup>th</sup> Anniversary Webinar: The long history of airborne infection transmission: why don't we use the knowledge we have**', 15 December 2022.  
Presentation: *The long history of airborne infection transmission: why don't we use the knowledge we have*
- Invited Plenary Presentation, '**Online Seminar Airborne Transmission SARS-CoV-2**', Tokyo Metropolitan University (TMU), 1 December 2022.  
Presentation: *Airborne respiratory infection transmission: do we understand it and are willing to control it?*
- Invited Plenary Presentation, '**The Era of Great Transition, Solving the Global Dilemma**', Kate Kim from GLF2022 Secretariat which is hosted by TV CHOSUN, part of CHOSUN Media, the largest media in South Korea, Seoul, Korea 21-22 November 2022.  
Presentation: *Airborne respiratory infections: at the crossroads between science, technology and politics*
- Invited Plenary Presentation, '**International Workshop on Air Pollution and Climate Change**', Shanghai University, Fudan University, SAES; and UNM and UKM in Malaysia, Beijing, China, 27-28 October 2022.  
Presentation: *The relationship between air pollution and generation of energy: what do we need to know and do?*
- Invited Plenary Presentation, '**OELD short course**', Thoracic Society of Australia and New Zealand (TSANZ) Occupational and Environmental Lung Diseases (OELD), Sydney, Australia, 14-15 October 2022.  
Presentation: *Ventilation: importance of fresh air*
- Invited Plenary Presentation, '**FIS/HIS Scientific Committee Meeting**', ESGNI, 26 September 2022.  
Presentation: *Airborne respiratory infection transmission: do we understand its mechanisms*
- Invited Plenary Presentation, '**XV TTMD International HVAC&R Technologies Symposium**', 20-23 September 2022.  
Presentation: *A Paradigm Shift to Combat Airborne Respiratory Infections Indoors*
- Invited Keynote Presentation, '**WCPT9**', Madrid, Spain, 19-22 September 2022.  
Keynote Presentation: *Particles in the air: decades of progress, but questions remain about how to monitor them*
- Invited Plenary Presentation, '**WCPT9**', Madrid, Spain, 19-22 September 2022.  
Presentation: *The world of particles we emit: how well do we understand and control it?*
- Invited Plenary Presentation, '**Frontline Worker Safety in the Age of COVID-19; A Global Prospective**', Health Watch, USA, 14 September 2022.  
Presentation: *Airborne infection transmission & Impact on Frontline Workers*
- Invited Plenary Presentation, '**Community Colleges Australia (CCA) Conference**', Sydney, NSW, 13-14 September 2022.  
Presentation: *Indoor Air Quality in the Educational Environment: We can do much better!*
- Invited Keynote Presentation, '**17<sup>th</sup> iCACGP-IGAC Science Conference (IGAC 2022)**', Universities of Manchester, Leeds, York, Lancaster and NCAS, chaired by Hugh Coe, Manchester, UK, 11-15

September 2022.

Keynote Presentation: *The future of indoor air: on the crossroads between science, technology and politics*

- Invited Keynote Presentation, '**26<sup>th</sup> CASANZ International Clean Air & Environment Conference**', 12 September 2022.  
Keynote Presentation: *Ventilation as a key prevention strategy. From research to policy*
- Invited Plenary Presentation, '**International Aerosol Conference (IAC 2022)**', Hellenic Association for Aerosol Research, Athens, Greece, 4-9 September 2022.  
Presentation: *WHO Air Quality Guidelines 2021: What change will they bring?*
- Invited Plenary Presentation, '**Comfort at the Extremes Conference (CATE 22)**', The Royal College of Physicians of Edinburgh, Edinburgh, UK, 5-6 September 2022.  
Presentation: *Australian policies to promote infection resilient design*
- Invited Plenary Presentation, '**Australian College of Toxicology and Risk Assessment's (ACTRA) Annual Scientific Meeting, "Exposure Science and New Assessment Methods (NAMs) – Enhancing Risk Assessment"**', Melbourne, Victoria, 24-26 August 2022.  
Presentation: *How to make clean, healthy indoor air the norm?*
- Invited Plenary Presentation, '**World Congress of Environmental Health (WCEH), "Environmental Health Issue and Challenges: Pandemic COVID-19"**', Malaysia Environmental Health Association (MAEH) and the International Federation of Environmental Health (IFEH), Malaysia, 23-25 August 2022.  
Presentation: *Built Environment: A Paradigm Shift to Combat Indoor Respiratory Infection*
- Invited Plenary Presentation, '**Air Conditioning, Refrigeration Building Services Exhibition Conference (ARBS 2022)**', MCEC, Melbourne, 16-18 August 2022.  
Presentation: *Will COVID-19 change the way we control airborne transmission of respiratory infections?*
- Invited Plenary Presentation, '**Conference of the International Association of Colloid and Interface Scientists (IACIS)**', 26-30 June 2022.  
Presentation: *The physics of the particles we emit: do we understand it and apply it?*
- Invited Plenary Presentation, '**13<sup>th</sup> Sao Paulo Infectious Diseases Congress**', São Paulo/SP, Brazil, 22-25 June 2022.  
Presentation: *How can airborne transmission of COVID-19 indoors be minimized?*
- Invited Plenary Presentation, '**ASHRAE VENT2022**', University of Toronto, Canada, 22-24 June 2022.  
Presentation: *The future of indoor air: on the cross roads between science, technology and politics*
- Invited Plenary Presentation, '**AiR-Climate-Health Nexus, SRI 2022 Conference**', organized by MAIRS-FE International Project Office and Peking University, 20-24 June 2022.  
Presentation: *We must stop polluting the air to protect health and reverse climate change*
- Invited Presentation, '**University of Surrey Department of Civil and Environmental Engineering Guest Webinar**', 17 June 2022.  
Presentation: *The future of indoor air: on the cross roads between science, technology and politics*
- Invited Keynote Presentation, '**Indoor Air 2022 Conference Workshop: Healthy people in healthy indoor environments**', 15 June 2022.

Presentation: *Indoor air quality in schools: multiple challenges to protect the health of our children*

- Invited Keynote Presentation, '**Indoor Air 2022 Conference Workshop: How to quantify impacts of low-cost solutions to mitigate indoor air pollution (IAP) in schools?**', 14 June 2022.  
Presentation: *Towards reducing Indoor Air Pollution: from nature-based solutions to innovative technologies*
- Invited Plenary Presentation, '**IP Statistics for Decision Makers Conference (IPSDM)**', Warsaw 14-15 June 2022.  
Presentation: *Airborne infection transmission: on the crossroads between science, technology and politics*
- Invited Plenary Presentation, '**OECD**' Warsaw, Poland, June 2022.  
Presentation: *Airborne infection transmission: on the crossroads between science, technology and politics*
- Invited Presentation, '**Jagiellonian University, Poland**', 2 June 2022.  
Presentation: *Fizyka infekcji dróg oddechowych: czy ją rozumiemy?*
- Invited Plenary Presentation, '**Life Science Across the Globe (LSAG), on Air Quality and Infectious Diseases**', 1 June 2022.  
Presentation: *How particles are generated during our respiratory activities*
- Invited Plenary Presentation, '**Global Centre for Clean Air Research (GCARE)**', University of Surrey, UK, 27 May 2022.  
Presentation: *The future of indoor air: on the crossroads between science. Technology and politics*
- Invited Plenary Presentation, '**CAR Conference**', 25 May 2022.  
Presentation: *What is the role for international agencies in pursuing safe air? (Guidelines global guidelines for air pollution – WHO; and the work with WHO on Covid)*
- Invited Keynote Presentation, '**CLIMA Conference**', Rotterdam, The Netherlands, 22-25 May 2022.  
Presentation: *Why is healthy indoor air an unmet challenge?*
- Invited Plenary Presentation, '**International Society for Respiratory Protection (ISRP)**', 9 May 2022.  
Presentation: *Will COVID-19 change the way we control airborne transmission of respiratory infections?*
- Invited Plenary Workshop Presentation, '**COVID-19, other airborne viruses and Ventilation to indoor spaces**', University of Queensland, 5 May 2022.  
Presentation: *Setting the scene: Indoor air quality, a bigger picture*
- Invited Plenary Presentation, '**CASANZ AirTalks**', ANZAA Online Event, 6 April 2022.  
Presentation: *Indoor atmosphere: why it is so difficult to adjust it to our needs?* [Link to AirTalks recordings](#)
- Invited Plenary Presentation, '**Conference on the Future of Europe (COFE)**', EVIA (European Ventilation Industry Association), 29 March 2022.  
Presentation: *A paradigm shift to combat indoor respiratory infection*
- Invited Plenary Presentation, '**XIV Interdyscyplinarną Konferencję Naukową TYGIEL 2022 "Interdyscyplinarność kluczem do rozwoju"**', Lublin/online, 24-27 March 2022.  
Presentation: *Technologie budowlane przyszłości: na Ziemi czy na Marsie?*



- Invited Plenary Presentation, '**Annual Conference and Trade Exhibition**', The Australian Institute of Occupational Hygienists (AIOH), International Conference Centre in Darling Harbour, in Sydney, 19-23 March 2022.  
Presentation: *Just ventilate the buildings! Is it as simple as this?*
- Invited Plenary Presentation, '**Forum for Graduate Students Association (FGSA)**', American Physical Society (APS), 14-18 March 2022.  
Presentation: *Physics of respiratory infections: do we understand it*
- Invited Plenary Presentation, '**Instytut Biologii UJ Polish Konswersatoria**', 24 February 2022.  
Presentation: *Indoor atmosphere: why it is so difficult to adjust it to our needs?*
- Invited Plenary Presentation, '**Building Ventilation Summit**', 24-25 February 2022
- Invited Plenary Presentation, '**Air Quality – Aged care**', Stantec Engineers, 23 February 2022
- Invited Keynote Presentation, '**International Workshop on Infectious Disease and Airflows around Human Body**', Tokyo Polytechnic University, Japan, 21-22 February 2022.  
Presentation: *Will COVID-19 change the way we control airborne transmission of respiratory infections?*
- Invited Talk, '**Sydney Nano Distinguished Lecture**', The University of Sydney Nano Institute, 17 February 2022.  
Presentation: *Why is clean air an unmet challenge, and will the pandemic help change this?* [Link to the Presentation](#)
- Invited Plenary Presentation, '**HEPA Webinar**', Westlab, 14 February 2022.  
Presentation: *Indoor air quality: A bigger picture.* [Link to the Presentation](#)
- Invited Lecture, **Healthcare Leadership class at Stanford University**, 31 January 2022.  
Presentation: *How to make clean, healthy indoor air the norm?*
- Invited Plenary Presentation, '**Naukowa Środa w Instytucie Biologii?**', Instytut Biologii Uniwersytetu Jana Kochanowskiego w Kielcach, 19 January 2022  
Presentation: *Zwalczanie infekcji dróg oddechowych w pomieszczeniach: czy COVID nam w tym pomoże?*
- Invited Plenary Presentation, Healthy Buildings 2021 – America, Theme '**Bridging the Gap Between Research and Practice – In the Age of COVID-19 and Beyond**', Honolulu, USA, 18-20 January 2022  
Presentation: *Just ventilate the buildings! Is it as simple as this?* [Link to the Presentation](#)

## 10. Activities – Other

None

# 11. Media Appearances

## Lidia Morawska

Many media appearances / interviews, for example:

- El País on 30 December, "[Ventilate without being cold: how to fight against diseases that are in the air](#)"
- Nature news with Dyani Lewis on 20 December.
- Croakey Health Media on 7 December, "[Calls for national action on ventilation to reduce the spread of COVID-19](#)"
- Medical Journal of Australia Podcasts 2022 Episode 42 on 7 December, "[Healthy Indoor air quality: why it's important, with Prof Lidia Morawska](#)"
- Social Science Air Futures with Sarah Pink on 7 December.
- QUT Media Release on 30 November, "[QUT research capability enhanced with two ARC Linkage Infrastructure grants](#)"
- ABC Arts with Jo Higgins on 29 November, "[QAGOMA's Air exhibition in Brisbane reflects on real-world issues, including climate change, colonisation and the pandemic](#)"
- ABC Radio National on 29 November, "[Do we need another healthcare revolution?](#)"
- Nature with Dyani Lewis on 17 November, "State of research/policy around improved indoor air quality"
- Medical Journal of Australia on 14 November, "[Indoor air quality: why are we ignoring it?](#)"
- Infection Control Matters Podcast with Brett Mitchell on 12 October.
- The Atlantic with Chris Baraniuk on 9 October, "[A UV Lamp That's Bad for COVID but Not for You](#)"
- Knowable Magazine with Chris Baraniuk on 29 September, "[How to fight Covid with light](#)" "
- ABC Radio National with Robyn Williams on 17 September, "[Queensland physicist warned the world about ventilation](#)"
- Canberra Times with Adrian Crowe on 8 September, "[Building standards lifted to improve ventilation post COVID outbreak](#)"
- QUT Media Release on 31 August, "[ARC Australian Laureate Fellow to target airborne infection risk with real-time detection](#)"
- Sunday Mail Brisbane with Samantha Scott on 28 August, "[Breathe deep, it's going to be bad](#)"
- WSWs with Richard Phillips, Gary Alvernia on 18 August, "[Aerosol physicist and health scientist Lidia Morawska speaks with WSWs about worsening COVID pandemic](#)"
- The Courier Mail on 18 August.
- ABC Radio Science with Robyn Williams on 15 August, "Better air quality in buildings"
- ABC Sydney Radio Afternoons on 4 August, "What Australia should be doing re ventilation and COVID"
- ABC News TV Hobart with Loretta Lohberger on 3 August, "[Ventilation key to battling COVID-19, experts say, urging Australia to do more](#)"
- Undark with Michael Schulson on 1 August.
- AIRAH with Mark Vender on 1 August, "Australian research project to focus on IAQ"
- Australian Financial Review with Kate Jones on 28 July, "Tenants can breathe easy"
- CCN on 28 July, "[Indoor health revolution](#)"
- ABC Radio National with Greg Muller on 21 July, "[Keeping students safe during another COVID wave](#)"
- QUT Media Release on 18 July, "[Better air quality in new buildings](#)"
- ABC Brisbane with Ciara Jones on 15 July, "[Queensland nears record COVID-19 hospitalisations and deaths with latest peak likely weeks away](#)"
- Uutiset on 14 July, "[Huippututkijat: paremmalla ilmanvaihdolla olisi mahdollista torjua hengitysteitse leviäviä epidemioita](#)"
- News Corp | The Courier Mail on 28 June, story on Lidia Morawska.
- ABC Coronacast podcast on 27 June, on ventilation.

- Infobae (largest news digital media in Latin America) with Valeria Roman on 11 June, [“Aire limpio y saludable en trabajos y escuelas: los expertos piden un cambio de paradigma para evitar infecciones”](#) (Indoor air quality in the context of pandemics)
- ABC with Lucia Stein on 9 June, [“How employers could help make offices more COVID safe with better air quality”](#)
- Pismo Magazine, Poland on 1 June, [“Lidia Morawska. Fizyczka na froncie walki z pandemią”](#)
- EOS Magazine with Richard J. Sima on 31 May, [“Indoor Air Pollution in the Time of Coronavirus”](#)
- The New York Times with Apoorva Mandavilli on 30 May, [“C.D.C. Dismisses Airborne Transmission of Monkeypox. Some Experts Disagree”](#)
- News.com.au with Matt Young on 19 April, [“Experts send new warnings as they reveal how Covid-19 is still spreading”](#)
- ABC Radio Brisbane with Hailey Renailt on 14 April, [“Why cleaning your air conditioner could help you feel better”](#)
- Nature with Dyani Lewis on 6 April, [“Why the WHO took two years to say COVID is airborne”](#)
- ABC with Janelle Miles and Ciara Jones on 31 March, [“How Brisbane Independent School prevented outbreaks of COVID-19, despite Omicron wave”](#)
- The Baffler with Ben Ehrenreich March, [“Airborne Toxic Events”](#)
- 7News on 26 March.
- ABC with Antonia O’Flaherty on 25 March, [“One in 50 Queensland students contract COVID as government slammed over ventilation audits”](#)
- Homestyle Green with Matthew Cutler-Welsh on 16 March, [“Healthy indoor air quality and ventilation”](#).
- ABC with Anna Salleh on 16 March.
- Al Jazeera with Natalie Grover on 11 March, [“Two years of COVID: The battle to accept airborne transmission”](#)
- World Socialist Web Site with Richard Phillips and Gary Alvernia on 27 February, [“Aerosol physicist Lidia Morawska calls for long-term measures to combat COVID-19 pandemic”](#)
- Huaxianet Sydney with Shiyue Liu on 24 February, [“Experts voice concern over Aussie states' easing restrictions in schools”](#)
- ABC with Jessica Rendall on 23 February, [“World leading air quality and health expert says it is too early for Queensland to lift COVID-19 mask mandate”](#)
- News.com.au with Matt Young on 22 February, [“Possibility of superspreader events and whether we can finally sigh a breath of relief”](#)
- Polish Australian Business Forum on 22 February, [“Unity Stories about us Podcast”](#) with Distinguished Professor Lidia Morawska
- Politico Europe with Sarah-Taïssir Bencharif on 23 February, [“Gas stoves might be a killer in the kitchen”](#)
- Pulse FM Radio with Kathryn Gene on 14 February, [“Air quality in the enclosed environment, schools, offices, transport. The roll of the mask effectiveness, and the air purifiers effectiveness”](#)
- QUT Media Release on 11 February, [“Professor Morawska develops air quality protocol for QUT”](#)
- WSWS with Richard Phillips on 21 February, [“More than 300 children infected on first day back at school in Australian state of Queensland”](#)
- Canberra Times with Peter Martin on 9 February, [“Let's invest in clean indoor air”](#)
- The Conversation with Peter Martin on 8 February, [“An investment in clean indoor air would do more than help us fight COVID – it would help us concentrate, with lasting benefits”](#)
- ABC Radio National with Edwina Stott on 6 February, [“The opportunity costs of global pollution”](#)
- The Fifth Estate with Sue Williams on 3 February, [“Demand for office space to bounce back in 2022: Property Council”](#)
- ABC with Audrey Courty on 3 February, [“Teacher questions how effective the mask mandate will be in high schools, as experts call for respirators to help prevent COVID spread”](#)
- The Guardian on 3 February, [“‘Like sardines’: experts question the results of ventilation audits at NSW schools”](#)

- ABC with Jacqueline Trewin on 28 January, "[Venting about ventilation in Queensland schools](#)"
- The Courier Mail with Adeshola Ore on 2 February, "Ventilation audit in NSW schools"
- 3AW with Dee Dee Dunleavy the host of the Afternoons show on 27 January, "Air purifiers".
- The Guardian in Victoria with Adeshola Ore on 27 January, "Rollout of the air purifiers in the state"
- ABC with Adam Langenberg on 21 January, "Ventilation in schools, particularly on the efficiency of air purifiers in reducing the risk of contracting COVID-19"
- Jacqueline Trewin, Freelance Journalist on 21 January, "Ventilation in Queensland Schools".
- Natalie Grover, Health/science writer, London, UK on 20 January.
- ABC with Antonia O'Flaherty on 18 January, "[Queensland schools told to boost natural airflow to limit COVID, but experts say it is not enough](#)"
- Cosmos Magazine with Clare Peddie on 13 January, "[Clean air in schools makes for better learning environment for students and teachers](#)"
- TVN Discovery Polska with Michal Malinowski on 13 January.
- Polish Interview with Julia Nowińska on 12 January.
- Nature with Dyani Lewis on 11 January, "WHO's updated guidance on how COVID is transmitted"
- BBC Radio 5 Live with Alistair Kleebauer on 6 January, "Air pollution in Beijing and the steps China is taking to improve this ahead of the Winter Olympics"

### **Zoran Ristovski**

- ABC Radio Queensland on 9 June on health impacts of woodfired stoves.
- Cosmos Magazine on 23 March, "[A light misting for the Great Barrier Reef](#)"

### **Branka Miljevic**

- Mirage News on 30 November, "[QUT research capability enhanced with two ARC Linkage Infrastructure grants](#)"

## 12. Visitors

- Dr Sylwia Dytłow, Visiting Research Fellow, Institute of Geophysics, Polish Academy of Sciences, 3 October 2022 – 1 April 2023