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ISIAQ Academy Awards 2014

The 13th International Conference on Indoor Air Quality and Climate (Indoor Air 2014) was convened in Hong Kong during the week of 7-12 July 2014. Professor Yuguo Li served as the Conference President. One of many highlights during the conference was the presentation of awards from the ISIAQ Academy of Fellows, which occurred during the opening plenary session. These awards celebrate high achievements in the indoor air sciences.

As described in an earlier editorial (Nazaroff, 2012a), the ISIAQ Academy of Fellows has its origins in the creation of the International Academy of Indoor Air Sciences in 1991. In 2005, that organization was reconstituted as a part of the International Society of Indoor Air Quality and Climate (ISIAQ). The ISIAQ Academy of Fellows is an international, multidisciplinary, scientific, honorific organization established to promote scholarship in the indoor environment and building sciences. The awards program, which is featured at all Indoor Air conferences, is a core activity of the Academy.

Best Paper Awards

The best-papers jury reviewed 143 papers that were published in *Indoor Air* during the years 2011-2013. Papers were judged for originality, scientific and technical content, and importance. In addition to these criteria, writing style was taken into consideration. The three winning papers each describe the results of field studies. It is noteworthy that two of these papers address what the jury considers to be the most important indoor air quality problem: exposures and health risks associated with indoor biomass cooking. In chronological order, these are the winning papers:

- Haverinen-Shaughnessy, U., Moschandreas, D.J. and Shaughnessy, R.J. (2011) Association between substandard classroom ventilation rates and students' academic achievement, *Indoor Air* **21**, 121-131. *This study used a cost-effective design to explore the relationship between classroom ventilation (estimated from CO₂ measurement in one classroom per school) and fifth-grade students passing mandatory standardized tests as a measure of student academic performance. The results are policy relevant, suggesting that increasing the ventilation rates in the many underventilated classrooms toward the recommended guideline values could translate into improved academic achievement of the students. The paper received high scores for originality and importance.*
- Dutta, A., Mukherjee, B., Das, D., Banerjee, A. and Ray, M.R. (2011) Hypertension with elevated levels of oxidized low-density lipoprotein and anticardiolipin antibody in the circulation of premenopausal Indian women chronically exposed to biomass smoke during cooking, *Indoor Air* **21**, 165-176. *In this well-designed study it is shown that poor women in rural India have a high risk of developing cardiovascular diseases. The methods employed are state-of-the-art, including numerous objective measures or signs of health. The paper leaves the reader with a solid impression of excellent science and craftsmanship. The paper scored high in all of the three main criteria.*
- Hawley, B. and Volckens, J. (2013) Proinflammatory effects of cookstove emissions on human bronchial epithelial cells, *Indoor Air* **23**, 4-13. *Another well designed study on effects of biomass cookstoves. The study uses human bronchial epithelial cells to assess pro-inflammatory effects with exposure to either traditional or improved (cleaner burning) cookstove emissions. The results support other evidence indicating that efficient cookstoves can reduce the health burden associated with exposure to household pollution from combustion of solid biomass fuels. The study uses multiple assays to assess effects; the work*

is novel and important; and the paper is very well written. As a result, the paper scored high in each of the three criteria.

Yaglou Award

This award honors Professor CP Yaglou's pioneering work on thermal comfort, indoor air quality, and ventilation requirements. Professor Yaglou carried out this work in the 1920s and 1930s at the Harvard School of Public Health. The purpose of the Yaglou Award is to acknowledge outstanding work of young, promising researchers within the indoor air sciences and to encourage them to continue their career in this field. The awardee must be under 37 years of age at the time the award is made. The award consists of a certificate and a travel grant. Previous winners of the Yaglou award are Prof. Helen H Suh (USA, 1999), Prof. Pawel Wargocki (Denmark, 2000), Prof. Christopher Chao (Hong Kong, 2002), Prof. Jelena Srebric (USA, 2005), Dr. Henry Cahyadi Willem (Singapore, 2008), and Prof. Ying Xu (USA, 2011).

This year's Yaglou Award winner is Dr. Gabriel Bekö from the International Centre for Indoor Environment and Energy, Department of Civil Engineering, Technical University of Denmark. Throughout his young research career, since earning his PhD in 2007, Dr. Bekö has consistently demonstrated outstanding skills and qualifications. He shows excellent ability to develop and acquire research capabilities in response to new challenges. Important achievements include the following: (a) providing an explanation for the odorous pollution produced on used filters through oxidation processes and identifying a solution to the problem; (b) developing an advanced model for predicting ventilation rates based on occupant behavior and building characteristics; (c) mapping the sources of ultrafine particles indoors and apportioning their contribution to total exposure; and (d) relating phthalates measured in dust to phthalate metabolites in urine. Dr. Bekö possesses wide technical expertise including sensory assessments, indoor air chemistry, aerosol science, and indoor environmental engineering (applied to both ventilation and air cleaning). He has demonstrated outstanding research skills both in laboratory research and in field studies. He has published extensively. He also is the youngest member of the Editorial Board of *Indoor Air*.



Dr. Gabriel Bekö

New Members of the ISIAQ Academy of Fellows

The Academy is open by invitation to persons who by invention, research or other activities have contributed significantly to the indoor air sciences. Nominations for new membership can only be made by current members and require recommendations by two Academy members from different countries. A membership committee reviews the nominations and recommends new

fellows. To be elected, each recommended candidate must be approved first by the Academy's Executive Committee and then by a majority of Academy Members.

The membership committee was guided in its deliberations by the following considerations.

- Impact of achievements across a spectrum of indicators. For research, factors included the h- and g-indices, other aspects of the citation record, the scholarly footprint of significant ideas, and the authorship role (with heavier weight for first or senior authorship). For practice and service, the committee considered the impact of the efforts undertaken and the level of service, with particular emphasis on leadership service to ISIAQ.
- Field of professional specialization should be clearly related to indoor environmental quality.
- Demonstrated interest in activities of the indoor environment research community, based on indicators such as membership in ISIAQ, publications in *Indoor Air*, and participation in the Indoor Air and Healthy Buildings conferences.

Following established procedures, seven new fellows were elected to membership in the ISIAQ Academy. They are listed here in alphabetical order, along with the membership committee's notation about the basis for their recommendation.

- Richard de Dear (Australia) — for important contributions to the field in adaptive thermal comfort.
- Steven Emmerich (USA) — for excellence in service and practice in ventilation, especially through work at the National Institute of Standards and Technology, USA, and in ASHRAE.
- Anne Hyvärinen (Finland) — for major service to ISIAQ and for strong research in indoor microbiological agents and health.
- Janet Macher (USA) — for outstanding contributions to knowledge regarding bioaerosols and other aspects of indoor microbiology.
- Jian Lei Niu (Hong Kong) — for outstanding contributions regarding HVAC systems and IAQ.
- Tiina Reponen (USA) — for outstanding contributions to knowledge in indoor environmental hygiene.
- Jiping Zhu (Canada) — for outstanding contributions to knowledge of material emissions and volatile organic compounds.

With these additions, the total membership in the ISIAQ Academy of Fellows is now 129. The membership list is available at the ISIAQ website (<http://www.isiaq.org/academy>).

Pettenkofer Award

The Pettenkofer Award is bestowed on an individual in recognition of outstanding work in advancing the indoor air sciences. The medal commemorates the achievements of Prof. Max von Pettenkofer (1818-1901) as the founder of modern hygiene and for his pioneering work on CO₂ and indoor air quality (Nazaroff, 2012b). This award is the Academy's highest. Previous winners are Prof. Thomas Lindvall (Sweden, 1999), Prof. Bernd Seifert (Germany, 2002), Prof. P. Ole Fanger (Denmark, 2005), Prof. John Spengler (USA, 2008), and Prof. Jan Sundell (Sweden, 2011).

This year's winner of the Pettenkofer Award is Dr. Charles J. Weschler. Dr. Weschler is currently affiliated with institutions on three continents. He is Adjunct Professor with the Environmental and Occupational Health Sciences Institute (EOHSI) at Rutgers University (New Jersey, USA). He is also a regular visitor and research participant at the International Centre for

Indoor Environment and Energy at the Technical University of Denmark and at the Building Science Department at Tsinghua University. A concise summary of his professional history and scholarly achievements can be found at the EOHSI website:

<http://eohsi.rutgers.edu/content/directory?profile=96>.

Dr. Weschler is honored with the Pettenkofer Award in recognition of his scholarly achievements and contributions advancing knowledge in the indoor air sciences, especially indoor chemistry. He is also honored for his extensive contributions as a colleague, collaborator, and mentor, in enriching and elevating the work of the many with whom he interacts.



Dr. Charles Weschler

Acknowledging the Service of the Selection Juries

We acknowledge and thank all of the members of the selection juries for the 2014 ISIAQ Academy Awards. On behalf of the entire ISIAQ community and especially the Academy of Fellows, we express our gratitude for their service.

- Best Papers Jury — Huey-Jen (Jenny) Su (Taiwan), William Fisk (USA), Geo Clausen (Denmark, Chair).
- Yaglou Award Committee — Gunilla Wieslander (Sweden), Huey-Jen (Jenny) Su (Taiwan), Qingyan (Yan) Chen (USA/China), Shin-ichi Tanabe (Japan), Pawel Wargocki (Denmark, Chair).
- Membership Committee (for New Fellows) — Richard Corsi (USA), Donald Milton (USA), Aino Nevalainen (Finland), Yinping Zhang (China), and Kwok Wai Tham (Singapore, Chair).
- Pettenkofer Committee (Academy Executive Committee) — Tunga Salthammer (Germany), Yuguo Li (Hong Kong), William Nazaroff (USA, Chair).

We also express appreciation to all of the nominators. The pools of nominees were excellent, and all nominators did a fine job in presenting the merits of the cases advanced. The juries were challenged to make wise choices.

William W Nazaroff
Editor-in-Chief of *Indoor Air*
Past President of the ISIAQ Academy of Fellows

Geo Clausen
Associate Editor of *Indoor Air*
Past Trustee of ISIAQ

Chair of the Best Papers Jury

Pawel Wargocki
Past President of ISIAQ
Chair of the Yaglou Award Committee

Kwok Wai Tham
Trustee of ISIAQ
Member of the Editorial Board of *Indoor Air*
Chair of the Membership Committee of the ISIAQ Academy of Fellows

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- Nazaroff, W.W. (2012a) ISIAQ and the Academy of Fellows, *Indoor Air* **22**, 353-355.
Nazaroff, W.W. (2012b) Max von Pettenkofer Award, *Indoor Air* **22**, 443-445.