

# Candidates for At-Large Directors – 2024 Elections

## **Pieter de Wilde**

I stand for re-election as At-large Director of IBPSA in order to continue my active contribution to the Association. I have been Board member since 2014 and have served IBPSA in various officer roles, first as Secretary (2015-2022) and more recently as Vice-President (2022-2024). My aspiration is to continue in an officer position, using the insights gained over the years to help run the Association.

I am full professor at Lunds Tekniska Högskola (LTH) in Lund, Sweden. My research focus is thermal building performance simulation, and its use in the building design and engineering community. I also have an interest in building performance monitoring which enables critical reflection on the validity of computational results, and their meaning in building operation and facility management practice. My paper on the “building energy performance gap” has been cited well over 1000 times.

Previously I have contributed to IBPSA as (founding) member of the Board of IBPSA-England, served as Chair of IBPSA-England, been the Chair of the Award and Fellowship Committee of IBPSA World, and held membership of various other committees such as the Publication committee and Governance committee. Recently I am taking the initiative to establish an IBPSA Strategic Planning Committee. I have been an active member of the IBPSA community and contributed to all Building Simulation Conferences since BS1997 in Prague. I have helped organize regional and national IBPSA-NVL and IBPSA-England events, and have been involved in reviewing for a range of IBPSA conferences, including BauSim, BSO, eSim, uSim, and of course the international Building Simulation series. I am the author of the second book endorsed by IBPSA, Building Performance Analysis (de Wilde, 2018) and am a member of the Editorial Board of IBPSA's Journal of Building Performance Simulation. I was made a Fellow of IBPSA in 2017.

## **Andrea Gasparella**

It is my belief that BPS represents a resource for research, education and professional practice, as it provides a virtual environment that can improve understanding and thus increase expertise on the complex network of interactions and performance aspects characterizing the built environment.

In my work as Professor of Building Physics at the Free University of Bozen/Bolzano, I rely on Building Performance Simulation on a daily basis, both in teaching and research. The BPS is a powerful research tool to assess and optimize the energy and non-energy performance of buildings through a multi-objective, multi-domain analysis. At the same time, the BPS offers a unique opportunity to increase understanding through experience, which is fundamental for teaching building physics and building energy systems and contributing to the education of new generations of professionals and designers.

Through the quality of its initiatives, the commitment of its members and its worldwide network, IBPSA provides an opportunity for researchers and practitioners, students and academics to share knowledge and advance the theory and practice of BPS. By valuing the peculiarities of regional affiliates and promoting their participation, IBPSA has enabled all those involved in the field of BPS to enhance and share tools and knowledge in a vibrant and passionate community.

That is why, it has been my pleasure and honor to serve on IBPSA's Board of Directors, as an at-large advisor, and to participate in several committees, as well as to help establish IBPSA Italy in 2011, on whose behalf, among others, I had the opportunity to co-chair the 16th Building Simulation conference in 2019, and since 2013 I have been organizing the Building Simulation Application BSA conference.

The sense of community I have experienced over the years makes me eager to renew my availability to serve as at-large director on the IBPSA board.

### **Matthias Haase**

I am Co-founder of IBPSA-Nordic and was IBPSA-Nordic board member 2011 - 2020. In that period, I was active in IBPSA-Nordic as secretary as well as chair of WG Education and as President. I co-organized 10 IBPSA-Nordic conferences as well as 3 IBPSA-Nordic Simulation seminars. In 2021 I joined IBSPA-CH board which was integrated into IBPSA-DACH in 2023 (merging German, Austrian and Swiss affiliates).

I was elected to IBPSA Board as Director-at-Large (2015, 2018 and 2022). Since 2016 I am chairing the IBPSA Project committee as well as participating in Publications and Communication committee. My aspiration is to increase the number of IBPSA Projects. Last year we initiated Project#2.

Since 2020 I am involved in international project management of IEA EBC Annex (73, 75, 82 and 83 (STD leader), Horizon Europe (PEDvolution) and national research projects (DECARB, RENOWAVE). At ZHAW, I am teaching Energy Management, Building systems, Energy in Buildings, Renewable Energy sources, Sustainable strategies in RE and FM, and Circular Economy Management. My research focuses on Energy Master planning for existing buildings and districts, Building Performance Analysis in Operation with Digital Twins, BMS and CAFM.

In SINTEF (2007-2020) I gathered experience as project manager with more than 20 R&D projects, participation in 8 EU-projects and 2 IEA projects and from 2010 – 2014 I was Associate Professor at NTNU, Department of Architectural Design, Trondheim, Norway. My work included teaching Building physics, Energy calculation methods and regulations, building performance simulation, Integrated Energy Design, Building simulation software (with practice in lab), supervision of 5 PhD students and 10 MSc students in Sustainable Architecture.

In my PhD research (2003-2007) with the topic: Double-skin facades (DSF) for hot and humid climate I tried to find a climate responsive approach using CFD as well as BPS and developed a design tool for DSF.

### **Nathaniel Jones**

I am the president of IBPSA-USA and have a decade of experience in IBPSA-USA leadership. I was a founding member of the organization's Research Committee in 2014 and have served on the IBPSA-USA Board of Directors since 2020. In this time I have launched numerous projects to bridge the gap between practitioners and researchers in our field, including the Research Committee webinar series, the newsletter's 'Ask a Modeler' column, and the HackSimBuild performance simulation buildathon. I serve IBPSA-USA on the Research (former chair), Communications, and Conferences committees. I have presented papers for every Building Simulation conference since 2011 and served on the program committee for Building Simulation 2017. I have also been on the SimBuild Scientific Committee since 2021 and chaired it for SimBuild 2024.

IBPSA brings together a diverse body of architects, engineers, developers, researchers, teachers, and students with a common goal: To improve the built environment through simulation. As a young industry that constantly innovates in response to new technologies, new regulations, and new tools, we struggle to maintain a connection between research and practice. IBPSA is the best organization to bridge between researchers and practitioners, and my goal on the board is to make IBPSA the most effective it can be at producing, promoting, and sharing innovations in all areas of building performance simulation. I hope to accomplish this by increasing the influence of conferences, projects, and online content that foster a global community of simulationists, with an emphasis on outreach to students and young professionals.

Professionally, I am a senior consultant in daylighting, microclimate, and comfort simulation at Arup, and I teach at Wentworth Institute of Technology. I am the creator of tools such as [comfort.arup.com](http://comfort.arup.com) and Accelerad, and I have authored over twenty peer-reviewed papers on occupant health, comfort, and building energy use.

### **Rob McLeod**

My experience in building performance and simulation spans over 20+ years working internationally both in industry and academia. I am currently a full Professor in Building Physics and Sustainability at TU Graz, Austria. I am also a Chartered Engineer (CEng), a Fellow of the Institute of Mechanical Engineers (FIMechE), a Certified European Passivhaus Designer (CEPHD) and a Fellow of the UK Higher Education Academy (FHEA).

I helped to initiate and establish the IBPSA World Equality, Diversity and Inclusion (ED&I) committee, and since March 2022 I have been the chair of this committee. Hence, one of my aspirations for IBPSA includes helping to create a more progressive

and inclusive environment by embedding best practice in ED&I/DEI throughout the organisation.

Previously, I have also been an active member of IBPSA England (2014-2020), where I held the position of Vice Chair of the board from 2016-2020. In this position I played a fundamental role in establishing IBPSA England as a Community Interest Company (limited by guarantee), for which I received the 'Outstanding Contribution' award at the Building Simulation & Optimization (BSO) conference of IBPSA England (2020). In addition to this, I previously held the position of research chair, of the ASHRAE Midlands chapter from 2017-2019.

I am also the scientific chair of the organising committee of the IBPSA Building Simulation 2027 conference, which will be held in Vienna. I have a forward looking and enthusiastic outlook, and I am always open to new ideas. I'm confident that my extensive track record of delivering projects with positive outcomes, in both industry and academia, provides me with the vision and experience to make a strong contribution to the future of IBPSA.

### **Danielle Monfet**

I discovered the world of building performance simulation (BPS) while working as a consultant and rapidly knew this was what I wanted to do. I thus completed a master's and doctorate in building engineering, both of which focused on building energy modelling. Later, I joined ÉTS-Montréal as a professor to strengthen the building science curricula and co-established the Laboratory of Thermal and Building Science that conducts research on advancing the use of building energy modelling tools, developing new calibration techniques of building energy models and developing approaches to design and assess the performance of controlled environment agricultural spaces (e.g., greenhouses and container farms), including crop modelling. My research projects often include industry collaboration, which has given me a detailed understanding of their challenges. I have been an IBPSA member for more than two decades. I attended my first BSim conference in 2003, followed by my first participation as an author at our regional conference, eSim, in 2006 and at BSim in 2009. In 2014, I joined the IBPSA-Canada board, organized the eSim conference, became IBPSA-Canada president, and served as the affiliate representative in 2018. In 2020, I was elected for the first time as Director of At-Large, and I wish to be re-elected for a third mandate to continue contributing to the positive influence IBPSA has on the BPS community. Since 2020, I have been involved in the website and EDI sub-committees. I am deeply inspired by the potential of IBPSA to shape the future of the BPS community. I am committed to leveraging my expertise and understanding of the challenges of using BPS tools to support IBPSA initiatives, increase its visibility, push forward its development and use, and will continue to work to advance the field of BPS.

### **Gülsu Ulukavak Harputlugil**

I stand for election as At-large Director of IBPSA. I have been an Affiliate Representative for 6 years and now would like to continue and expand my role. My aspiration is to represent the wider Middle East on the Board, developing further connections with this region. I also am keen to promote the use of simulation in architectural design, particularly when applied to architectural design education. As At-Large Director I would also further strengthen the equality and diversity of the IBPSA Board.

I am full professor at Çankaya University Architecture, Türkiye. My scholarly interest covers energy efficient building design, net zero energy/carbon/water buildings, performance evaluation and building simulation. My research has been focused on performance evaluation techniques (particularly BPS) improvement of performance evaluation during design process and exploring integration possibilities of performance simulation tools into design process. Since 2015, I have also explored impact of occupant behaviour on energy consumption of dwellings, renovation strategies of current building stock and climate change adaptation strategies for buildings and communities.

I was introduced to IBPSA during a stay with the building simulation group of Professor Jan Hensen at TU Eindhoven back in 2005. Since then, I have contributed to most international Building Simulation papers through papers, reviews and presentations. Further volunteer contributions to IBPSA are as follows: I was founding chair of IBPSA Türkiye (2017-2021) and then vice-chair (2021-2024). During this time, I have organized 3 IBPSA-Türkiye seminars as well as an IBPSA Türkiye special session at the TTMD conference in 2020. I have been Affiliate Representative and IBPSA Board member from 2018 to 2024. I have led two bids to host the international Building Simulation conference in Istanbul. I am presently a member of the IBPSA Conference Committee as well as the IBPSA Equality, Diversity and Inclusivity Committee.