

The members of the Scientific Committee were Ana Marco, Raymond Honfu Chan, Froilán M. Dopico, Christian Mehl, Juan Manuel Peña, Lothar Reichel, Stefano Serra-Capizzano, Ana M. Urbano and Marc Van Barel. The Organizing Committee consisted of Ana Marco, Fernando De Terán, Fabio Di Benedetto, Bruno Iannazzo, José Javier Martínez, Beatrice Meini, Federico Poloni and Raquel Viaña.

The meeting consisted of four 45-minute invited talks and ninety-two 20-minute contributed talks, delivered in three parallel sessions. There were 105 participants, who, in addition to Spain and Italy, came from Belgium, Croatia, Finland, Germany, Israel, Portugal, Russia, the United Kingdom and the United States.

The plenary speakers were:

- Dario A. Bini (Università di Pisa) – Structured matrix analysis: the class of Quasi-Toeplitz matrices
- Françoise Tisseur (ILAS Speaker, University of Manchester) – Structure-preserving transformations for matrix polynomials
- Evgeny Tyrtyshnikov (Moscow State University) – From ill-posedness to correct settings
- Ion Zaballa (Universidad del País Vasco) – Matrix polynomials and friends

The journal *Linear and Multilinear Algebra* will publish a special number of original articles presented in the meeting.

We would like to thank all the sponsors of the event: University of Alcalá (UAH), the Physics and Mathematics Department of UAH, Universidad Carlos III de Madrid (UC3M), the International Linear Algebra Society (ILAS), Foundation Compositio Mathematica, the Spanish Society of Applied Mathematics (SEMA), Comunidad de Madrid, and Ayuntamiento de Alcalá de Henares.

For more information, the conference web site is available at <https://www.alama2022.com>.

XXI Householder Symposium on Numerical Linear Algebra Selva di Fasano, Italy, June 12–17, 2022

Report by Leonardo Robol and Francesco Tudisco

The 21st Householder Symposium on Numerical Linear Algebra took place in Selva di Fasano, Italy on June 12–17, 2022. The symposium featured an exciting blend of modern numerical linear algebra topics, such as the spectra of infinite-dimensional operators, nonlinear eigenvalue problems, functions of matrices and preconditioning, uncertainty quantification and data assimilation, and low-rank approximation methods. There were 115 lectures, including 23 plenary talks and three addresses by recipients of Householder Prizes.

For more information, please refer to the report published in *SIAM News*:

<https://sinews.siam.org/Details-Page/report-of-the-xxi-householder-symposium-on-numerical-linear-algebra>

The 9th International Conference on Matrix Analysis and Applications (ICMAA) Aveiro, Portugal, June 15–17, 2022

Report by Enide Andrade and Rute Lemos

The 9th International Conference on Matrix Analysis and Applications (ICMAA 2022) was held at the Department of Mathematics of the University of Aveiro in Aveiro, Portugal, June 15–17, 2022. The purpose of this meeting was to stimulate research and interaction among mathematicians working in all aspects of linear and multilinear algebra, matrix analysis, graph theory, and related applications, providing an opportunity for researchers to join together and exchange ideas and developments on these subjects. Forty abstracts, with contributions from both theoretical and applied perspectives, were submitted for presentation, and about fifty-two participants registered for ICMAA 2022, including six Ph.D., master's or bachelor's students.

The keynote speaker was Peter Šemrl from the University of Ljubljana, Ljubljana, Slovenia, who presented a plenary talk entitled *On Wigner's theorem*. The invited speakers were Natália Bebiano from Universidade de Coimbra, Portugal and Chi-Kwong Li from the College of William and Mary, Williamsburg, Virginia, USA. The titles of their plenary talks were *An inverse eigenvalue problem for pseudo-Jacobi matrices* and *Linear maps preserving parallel pairs*, respectively. The titles and abstracts of all talks can be seen at <https://sites.google.com/view/icmaa-2022>.

After a two-year period of pandemic restrictions that forced the previously-scheduled ICMAA 2020 to be postponed, participants had the opportunity to enjoy the fruitful discussions and friendly atmosphere of coffee and lunch breaks. The social program included a welcome reception, *Porto d'Honra*, the conference dinner, and a typical “moliceiro” boat tour on Aveiro's city centre canals.

The conference was organized and supported by the Center for Research & Development in Mathematics and Applications (CIDMA, <https://cidma.ua.pt>), through the Portuguese Foundation for Science and Technology (FCT - *Fundação para a Ciência e a Tecnologia*), within projects UIDB/04106/2020 and UIDP/04106/2020. It was also supported by the International Linear Algebra Society, the University of Aveiro (<https://www.ua.pt>) and by the Department of Mathematics of the University of Aveiro (<https://www.ua.pt/pt/dmat>).

The Scientific Organizing Committee consisted of Enide Andrade (Organizing Committee Chair) and Rute Lemos, University of Aveiro, Aveiro, Portugal; Tin-Yau Tam (Organizing Committee co-Chair), University of Nevada, Reno, USA; Qing-Wen Wang, Shanghai University, Shanghai, China; Fuzhen Zhang, Nova Southeastern University, Fort Lauderdale, USA.

The Local Organizing Committee consisted of Enide Andrade, Rute Lemos, João Pedro Cruz, and Sofia Pinheiro, all from the University of Aveiro, Aveiro, Portugal.

The 24th ILAS Conference: Classical Connections Galway, Ireland, June 20–24, 2022

Report by Rachel Quinlan and Helena Šmigoc

The 24th Conference of the International Linear Algebra Society (ILAS 2022) took place June 20–24, 2022, at the National University of Ireland, Galway.

The conference theme was Classical Connections. This was reflected in the plenary programme and mini-symposia, and participants were encouraged to think about relating talks to their historical roots. The conference attracted over 250 participants, with a rich programme consisting of 10 plenary speakers, 22 mini-symposia, contributed talks, and a poster session. The programme followed a similar format to that of other recent ILAS conferences: lectures and mini-symposia from Monday to Friday, with an excursion on Wednesday afternoon followed by a banquet on Wednesday evening.

The conference proceedings will be published as a special issue of *Linear Algebra and its Applications*.

Plenary lectures were delivered by:

- Shmuel Friedland (University of Illinois Chicago, *LAMA* Lecture) - *Rank of a tensor and quantum entanglement*
- Patrick Farrell (University of Oxford) - *Reynolds-robust preconditioners for the stationary incompressible Navier-Stokes and MHD equations*
- Nicolas Gillis (University of Mons) - *Historical tour on the nonnegative rank*
- Misha Kilmer (Tufts University, *SIAG/LA* Lecture) - *Bridging the divide: from matrix to tensor algebra for optimal approximation and compression*
- Monique Laurent (Amsterdam, and Tilburg University) - *Graphs, copositive matrices, and sums of squares of polynomials*
- Clément de Seguins Pazzis (Université de Versailles Saint-Quentin-en-Yvelines) - *Decomposing matrices into quadratic ones*
- Christiane Tretter (University of Bern, *LAA* Lecture) - *From finite to infinite dimensions: Chances and challenges in spectral theory*
- Vilmar Trevisan (Universidade Federal do Rio Grande do Sul) - *Eigenvalue Location of Symmetric Matrices*
- Pauline van den Driessche (University of Victoria, Hans Schneider Prize Lecture) - *Linear Algebra is Everywhere: a Duo of Examples from Mathematical Biology*
- Paul van Dooren (Catholic University of Louvain, Israel Gohberg ILAS-IWOTA Lecture) - *Strongly minimal self-conjugate linearizations for polynomial and rational matrices*

Five more junior participants were chosen to be *LAA* Early Career Speakers: Jane Breen, Projesh Nath Choudhury, Jephian Lin, Davide Palitta, and Maria del Carmen Quintana.

A barbecue welcome dinner on Monday was the first social event of the conference. It provided a relaxed setting for catching up with old friends, making new connections, and for the participants to join in the excitement for the week ahead. Participants could choose among three options for the Wednesday excursion: to marvel at the spectacular Cliffs of Moher, to stretch their legs by taking the Marconi Loop walk at the landing site of the first transatlantic flight, or to enjoy the scenery of the South Connemara Coast. Then, that evening, participants had a chance for a culinary experience at the conference banquet, held at the Galmont Hotel.