Conferences, Workshops and Seminars

December 2, 2025

[1] **A. Locatelli**. Synchrotron-based photoemission spectromicroscopy of 2D systems. In *SEL-DoM: Surface and Electronic Properties of Low Dimensional Materials*, Università degli Studi di Napoli Federico II, Napoli (Italy), 13-15 September, 2025 [**Invited Oral**].

[2] **A. Locatelli**. Present and future opportunities in materials science at Elettra. In *CNR-IOM Workshop: "Electronic and magnetic characterization of nanomaterials and their heterostructures with electron and photon based spectroscopies"*, Università Ca' Foscari, Venezia (Italy), 13-15 January, 2025 [**Invited Oral**].

[3] **A. Locatelli**. Magnetic microscopy at the nanoscale. In *110° Congresso Nazionale della Società Italiana di Fisica*, Distretto Navile dell'Università degli Studi di Bologna, Bologna (Italy), 9-13 September, 2024 [**Invited Oral**].

[4] **A. Locatelli**. Recent advances and trends in nano and materials sciences at Elettra. In *110° Congresso Nazionale della Società Italiana di Fisica*, Distretto Navile dell'Università degli Studi di Bologna, Bologna (Italy), 9-13 September, 2024 [**Invited Oral**].

[5] **A. Locatelli**. Imaging surfaces using the photoemission electron microscope. In *HERCULES 2024 European School Partner Week at Elettra*, Elettra-Sincrotrone, Basovizza, Treste (Italy), 11-15 March, 2024 [**Oral**].

[6] **A. Locatelli**. Proposal scheduling, experiment execution and follow-up. In *ELI - IMPULSE User access workshop*, Savoia Excelsior Palace hotel, Treste (Italy), 30-31 January, 2024 [**Oral**].

[7] C.A. Brondin, F. Genuzio, P. Genoni, M.Jugovac, S. Ghosh, N. Stojić, N. Binggeli, S. Bonetti, T.O. Menteş, **A. Locatelli**. Magnetism in graphene-capped ultrathin cobalt. In *36th European Conference on Surface Science*, Lodz (Poland), 28 Aug - 1 Sep 2023 [**Oral**].

[8] **A. Locatelli**. Proposal scheduling, experiment execution and follow-up. In *SOLARIS Update Meeting online event*, Krakow (Poland), June 21-22, 2023 [**Online Oral**].

[9] **A. Locatelli**. Discovering materials with synchrotron light: research opportunities at Elettra. In *Elettra event at the Institute of Physics, Belgrade*, Belgrade (Serbia), 9 February 2023) [**Online Oral**].

[10] **A. Locatelli**. Unveiling nanoscale materials using photoemission spectromicroscopy. In *NewTimes - New Trends in Materials Science and Engineering*, L'Aquila (Italy), 14-18 June, 2021 [**Keynote, online**].

[11] **A. Locatelli**. Photoemission electron spectromicroscopy of complex interfaces: probing 2D materials and the support underneath. In *Graphene 2020*, Grenoble (France), June 2-5, 2020 [**Invited talk**].

[12] **A. Locatelli**. Unveiling the local properties of nanomaterials using x-ray photoelectron spectromicroscopy. In *Bilateral Workshop: Nanotechnology and Nanoapplication*, Ljubljana (Slovenia), February 5-6, 2020 [**Invited talk**].

[13] **A. Locatelli**. X-ray Photo-Emission Electron Microscopy: Methods and Applications in Surface Science. In *SILS2019, XV School on Synchrotron Radiation "Gilberto Vlaic": Fundamentals, Methods and Applications*, Muggia (Italy), 16-27 September, 2019 [**Oral Lecture**].

[14] F. Genuzio, T. O. Menteş, P. Genoni, B. Santos, C. Lenardi, A. Sala, and **A. Locatelli**. Tuning thin film magnetism with 2D carbon overlayers. In *105° Congresso Nazionale - Società Italiana di Fisica*, L'Aquila (Italy), 23-27 September, 2019 [**Invited talk**].

[15] P. Genoni, F. Genuzio, T. O. Menteş, B. Santos, A. Sala, C. Lenardi, and **A. Locatelli**. Magnetic patterning by electron beam assisted carbon lithography. In *ICESS-14, the fourteenth International Conference of Electronic Spectroscopy and Structure*, Shanghai (PRC), October 7-12, 2018 [**Oral**].

[16] **A. Locatelli**. Spectromicroscopy with Synchrotron Radiation. In *2nd NFFA-Europe Summer School*, Basovizza, Trieste (Italy), July 9-13, 2018 [**Invited lecture**].

[17] **A. Locatelli**. Cathode Lens Microscopy: LEEM, XPEEM and Applications. In *School on Synchrotron and Free-Electron-Laser Methods for Multidisciplinary Applications*, ICTP, Trieste (Italy), May 7-18, 2018 [**Invited lecture**].

[18] **A. Locatelli**. Synchrotron radiation spectromicroscopy at the nanometer scale. In *Specialized seminars on experimental physics, Univerza v Ljubljani, Fakulteta za matematiko in fiziko*, Ljubljana (Slo), March 1-2, 2018 [**Invited lectures**].

[19] F. Genuzio, P. Genoni, T.O. Menteş, B. Santos, A. Sala, C. Lenardi, and **A. Locatelli**. Local control of the magnetic anisotropy by electron and photon beam induced CO dissociation. In *11th International Symposium on Atomic Level Characterizations for New Materials and Devices 17 (ALC'17)*, Kauai HI, USA, December 3-8, 2017 [**Oral**].

[20] **A. Locatelli**. Chemical and magnetic imaging with x-ray photoemission electron microscopy (XPEEM). In *XIV School on Synchrotron Radiation: Fundamentals, Methods and Applications*, Muggia (Italy), September 14-29, 2017 [**Invited lecture**].

[21] **A. Locatelli**, , T.O. Menteş, G. Zamborlini, A. Sala, C. Africh, L.L. Patera, G. Comelli, M. Imam, C. Wang, N. Stoji+c, and N. Binggeli. Unveiling complex graphene structures using SPELEEM. In *13th European Conference on Surface Crystallography and Dynamics (ECSCD-13)*, Donostia-San Sebastián, Spain, June 19-21, 2017 [**Keynote oral**].

[22] **A. Locatelli**. The CERIC MAG-ALCHEMI project: scientific goals and preliminary work. In *Science@CERIC Workshop*, Hermagor, Austria, March 27-29, 2017 [**Invited oral**].

[23] **A. Locatelli**. Formation, structure and stability of noble-gas bubbles under graphene. In *Symposium on Surface and Nano Science 2017 (SSNS17)*, Furano, Japan, January 11-15, 2017 [**Invited oral**].

[24] P. Genoni, T.O. Menteş, B. Santos, A. Sala, C. Lenardi, and **A. Locatelli**. Chemo-magnetic micro-grafting by beam induced CO dissociation. In *10th LEEM/PEEM workshop*, Monterey (CA), September 11-15, 2016 [**Oral**].

[25] G. Zamborlini, T.O. Menteş, A. Sala, **A. Locatelli**, L. Patera, C. Africh, G. Comelli, M. Imam, N. Stojić, and N. Binggeli. Graphene irradiation with low energy ions: from substitutional implantation to nanobubble formation. In *3rd European Workshop on Epitaxial Graphene and 2D Materials (EWE G/2D)*, Bergisch Gladbach (near Cologne), May 17-21, 2016 [**Invited oral**].

[26] **A. Locatelli**. Basic concepts for LEEM, PEEM and XPEEM and applications. In *ICTP School on Synchrotron and Free-Electron-Laser Based Methods: Multidisciplinary Applications and Perspectives*, Trieste, April 4-15, 2016 [**Invited lecture**].

[27] **A. Locatelli**. Synchrotron-based photoemission electron microscopy: principles and practice. In *HERCULES European School: Neutrons and synchrotron radiation for science*, Grenoble and Trieste, March 29 to April 29, 2016 [**Lecture**].

[28] P. Genoni, T.O. Menteş, B. Santos, A. Sala, C. Lenardi, and **A. Locatelli**. Chemo-magnetic micro-grafting by particle beam induced CO dissociation. In *SSNS'16, Symposyum on Surface and Nano Science*, Furano, Japan, January 13-17, 2016 [**Invited oral**].

[29] G. Zamborlini, M. Imam, L.L. Patera, T.O. Menteç, N. Stojić, C. Africh, A. Sala, N. Binggeli, G. Comelli, and **A. Locatelli**. Noble gas nanobubbles at extreme pressure under graphene. In *10th International Symposium on Atomic Level Characterizations for New Materials and Devices (ALC'15)*, Matsue (Japan), October 25-30, 2015 [**Invited oral**].

[30] **A. Locatelli**. Cathode lens spectro-microscopy of the graphene-metal interface: film-substrate interactions, buffer layers and trapped species. In *16th European Conference on applications of Surface and Interface Analysis (ECASIA)*, Granada (Spain), September 28 - October 1, 2015 [**Keynote oral**].

[31] **A. Locatelli**. Chemical and magnetic imaging with x-ray photoemission electron microscopy (XPEEM). In *XIII School on Synchrotron Radiation: Fundamentals, Methods and Applications*, Grado (Italy), September 14-25, 2015 [**Invited lecture**].

[32] **A. Locatelli**. Cathode lens spectro-microscopy of the graphene-metal interface: film-substrate interactions, buffer layers and trapped species. In *GraphITA 2015*, Bologna (Italy), September 14-18, 2015 [**Invited oral**].

[33] **A. Locatelli**. Cathode lens spectromicroscopy at elettra: applications and perspectives. In *MAX IV user Meeting, Nordic X-Ray Science Days*, Lund, Sweden, 29 September - 1 October, 2014 [**Invited oral**].

[34] G. Zamborlini, T.O. Menteş, A. Sala, **A. Locatelli**, L. Patera, C. Africh, G. Comelli, M. Imam, N. Stojić, and N. Binggeli. Ripening and stability of rare gas clusters under graphene. In *LEEM/PEEM-9*, Berlin, Germany, September 14-18, 2014 [**Oral**].

[35] **A. Locatelli**. Recent progress in cathode lens spectromicroscopy at Elettra: from chemical imaging to microprobe-ARPES. In *Technische Universität München*, München, Germany, May 26, 2014 [**Invited seminar**].

[36] **A. Locatelli**. Nanospectroscopy by XPEEM and LEEM: current state and perspectives. In *12th International School and Symposium on Synchrotron Radiation in Natural Sciences*, Warsaw, Poland, 15-20 June, 2014 [**Invited oral**].

[37] **A. Locatelli**. Cathode lens microscopy of the graphene-metal interface: from chemical imaging to micro-ARPES. In *Photon and Neutron Applications to the study of Biological and Nanoscale Systems*, Australian Synchrotron, Melbourne, 20-21 May, 2014 [**Invited oral**].

[38] **A. Locatelli**. Full-field and scanning photoelectron spectromicroscopy at Elettra: state-of-the-art and opportunities. In *CEITEC Meeting*, Brno, Czech Republic, University Campus Bohunice, March 27, 2014 [**Invited oral**].

[39] **A. Locatelli**. Recent progress in synchrotron-based cathode lens spectromicroscopy: chemical, magnetic and electronic structure characterization at the nanoscale. In *Workshop on synchrotron-based spectromicroscopy*, Università degli Studi di Milano, Dipartimento di Fisica, February 26, 2014 [**Invited seminar**].

[40] **A. Locatelli**, T.O. Menteş, C. Wang, N. Stojić, N. Binggeli, C. Africh, and G. Comelli. Temperature-controlled reversible rippling and bonding of graphene on a square lattice. In *ALC '13. 9th International Symposium on Atomic Level Characterizations for New Materials and Devices '13*, Kona, Hawaii, December 2-6, 2013 [**Oral**].

[41] **A. Locatelli**, T.O. Menteş, G. Zamborlini, C. Wang, N. Stojić, N. Binggeli, C. Africh, and G. Comelli. Temperature-driven reversible rippling, bonding and electronic structure of graphene on Ir(100). In *XCIX Congresso Nazionale della Società Italiana di Fisica*, Trieste, Italy, September 23-27, 2013 [**Oral**].

[42] **A. Locatelli**. Photoemission electron microscopy for chemical and magnetic imaging. In *SILS XII school on Synchrotron Radiation: Fundamentals, Methods and Applications*, Grado, Italy, September 16-27, 2013 [**Invited Lecture**].

[43] **A. Locatelli**. Chemical and magnetic imaging with x-ray photoemission electron microscopy. In *3rd Joint PhD Summer School on Nanotechnology, organized by SISSA - International School for Advanced Studies*, Trieste, Italy, September 4-6, 2013 [**Invited Lecture**].

[44] **A. Locatelli**, C. Africh, C. Wang, N. Stojić, T.O. Menteş, G. Comelli, and N. Binggeli. Temperature-controlled reversible rippling and bonding of graphene on a square lattice. In *19th International Vacuum Congress IVC-19*, Paris, September 9-13, 2013 [**Oral**].

[45] **A. Locatelli**, T.O. Menteş, C. Wang, N. Stojić, N. Binggeli, C. Africh, and G. Comelli. Morphology, bonding and electronic structure of graphene on Ir(100). In *VUVX2013, the 38th International conference on Vacuum Ultraviolet and X-ray Physics.*, Hefei, Anhui Province, China, July 12-19, 2013 [**invited oral**].

[46] **A. Locatelli**, T.O. Menteş, C. Wang, N. Stojić, N. Binggeli, C. Africh, and G. Comelli. Morphology and electronic structure of graphene on an Ir square lattice. In *The 8th International Workshop on LEEM-PEEM*, Hong Kong, November 11-15, 2012 [**Oral**].

[47] **A. Locatelli**. Basic concepts in synchrotron radiation peem imaging and spectroscopy. In *The 8th International Workshop on LEEM-PEEM*, Hong Kong, November 11-15, 2012 [**Invited Tutorial lecture**].

[48] **A. Locatelli**. Basic concepts for LEEM, PEEM and XPEEM and applications. In *School on Synchrotron and FEL Based Methods and their Multi-Disciplinary Applications*, Trieste, Italy, March 19-30, 2012 [**Invited lecture**].

[49] **A. Locatelli**. Applications of cathode lens microscopy in research on nanomaterials @ Elettra. In *Science@C-ERIC*, Trieste, Italy, December 11-12, 2012 [**Oral**].

[50] **A. Locatelli**, T. O. Menteş, L. Aballe, M. Á. Niño, M. Kiskinova, E. Bauer, N. Stojić, N. Binggeli, J. Ardini, and G. Held. LEEM Studies of Stress-Driven Stripe Patterns in Metal Adlayers on W(110). In *28th European Conference on Surface Science (ECOSS-28)*, Wrozlaw, Poland, August 28 - September 2, 2011 [**Invited oral**].

[51] **A. Locatelli**. The LEEM-XPEEM beamline at Elettra: Nanospectroscopy. In *HERMES beamline "Expert users" Meeting*, Synchrotron SOLEIL, Paris, France, May 31, 2011 [**Invited oral**].

[52] **A. Locatelli**, K.R. Knox, D. Cvetko, T.O. Menteş, M. Á. Niño, S. Wang, M.B. Yilmaz, P. Kim, R.M. Osgood, and A. Morgante. Corrugation in suspended and supported exfoliated graphene: a LEEM, LEED and ARPES study. In *ALC11 - 8th International Symposium on Atomic Level Characterizations for New Materials and Devices 11*, Seoul, Republic of Korea, May 22-27, 2011 [**Invited oral**].

[53] **A. Locatelli**. XPEEM and LEEM @ Elettra. In *TEAM workshop: "Atomic and molecular level devising of functional nanostructures for magnetic and catalytic applications"*, Zakopane, Poland, April 12-16, 2011 [**Invited oral**].

[54] **A. Locatelli**. Can XPEEM meet the challenge of "nano-" and "fast"? In *1st International Workshop on SPEM*, Trieste, December 13-15, 2010 [**Oral**].

[55] **A. Locatelli**. Challenges of nano-characterization by XPEEM: from high lateral resolution imaging to micro-ARPES. In *ALS Users' Meeting 2010, workshop on X-Ray Spectromicroscopy and Photoemission Electron Microscopy (PEEM)*, Berekley, California, October 13-14, 2010 [**Invited oral**].

[56] **A. Locatelli**. Stress-Driven Stripe Patterns in Metal Adlayers on W(110): a LEEM and XPEEM study. In *IMC17 - International Microscopy Congress (IMC-17)*, Rio de Janeiro, Brazil, September 19-24, 2010 [**Invited oral**].

[57] **A. Locatelli**. Challenges of nano-characterization by XPEEM: from high lateral resolution imaging to micro-ARPES. In *Diamond Users' Meeting 2010*, Didicot, United Kingdom, September 8-9, 2010 [**Invited oral**].

[58] **A. Locatelli**, T.O. Menteş, N. Stojić, L. Aballe, N. Binggeli, M. Á Niño, M. Kiskinova, and E. Bauer. LEEM and XPEEM Studies of Stress-Driven Stripe Patterns in Metal Adlayers on W(110). In *International Workshop on in situ characterization of near-surface processes*, Eisenerz, Province of Styria, Austria, May 30-June 3, 2010 [**Invited oral**].

[59] **A. Locatelli**. Challenges and opportunities in LEEM-PEEM: from high lateral resolution imaging of nanostructures to micro-AREPS. In *XCV Congresso Nazionale della Società Italiana di Fisica*, Bari, Italy, September 28 - October 3, 2009 [**Invited oral**].

[60] **A. Locatelli**, K.R. Knox, D. Cvetko, T.O. Menteş, M. Á. Niño, S. Wang, M.B. Yilmaz, P. Kim, R.M. Osgood, and A. Morgante. Surface corrugation, morphology and electronic structure of exfoliated graphene: a LEEM, micro-LEED and micro-ARPES study. In *AC-SIN10 - 10th International Conference on Atomically Controlled Surfaces, Interfaces and Nanostructures,*, Granada, Spain, September 21-25, 2009 [**Invited oral**].

[61] **A. Locatelli**. LEEM-PEEM at the Elettra synchrotron facility: from high lateral resolution imaging of nanostructures to micro-ARPES. In *Columbia University*, New York, May 21, 2009 [**Seminar**].

[62] **A. Locatelli**. Morphology and electronic structure of SiO_2 supported and suspended exfoliated graphene. In *NSLS/CFN Users' Meeting, workshop on: "Electron Spectro-Microscopies with Synchrotron Radiation: Review & Perspectives"*, Brookhaven National Laboratory, New York, May 18, 2009 [**Invited**].

[63] **A. Locatelli**, T. O. Mentes, L. Aballe, A. Pavlovska, E. Bauer, T. Pabisak, and A. Kiejna. Au growth on TiO_2 in presence of oxygen vacancies created by electron and photon stimulated desorption. In *14th International Conference on Solid Films and Surfaces*, Trieste, Dublin, IE, June 29 - July 4, 2008 [**Oral**].

[64] **A. Locatelli**. Adsorbate Mass Transport and Re-organization induced by Surface Chemical Reactions. In *MRS Spring Meeting*, San Francisco, CA, USA, March 24-28, 2008 [**Invited oral**].

[65] **A. Locatelli**. Chemical and magnetic PEEM imaging at Elettra. In *15th National Meeting of the Italian Society for Synchrotron Radiation (SILS)*, Università degli Studi di Milano, Milano, Italy, July 5-7, 2007 [**Invited Lecture**].

[66] **A. Locatelli**. Synchrotron radiation PEEM and LEEM studies of surfaces and interfaces. In *Workshop "surfaces, nano-objets et rayonnement synchrotron" / "Surfaces, nano-objects and synchrotron radiation"*, Soleil User meeting, Paris, January 16-18, 2007 [**Invited oral**].

[67] L. Aballe, A. Barinov, **A. Locatelli**, S. Heun, and M. Kiskinova. Tuning surface reactivity via quantum electron confinement. In *LEEM PEEM V, The 5th International Conference on LEEM/PEEM*, Himeji, Japan, October 15-19, 2006 [**Oral**].

[68] **A. Locatelli**. XPS with High Lateral Resolution. In *ICESS 10, International Conference on Electronic Spectroscopy and Structure*, Foz do Iguau, PR, Brazil, August 28 - September 1, 2006 [**Invited oral**].

[69] **A. Locatelli**, T.O. Menteş, L. Aballe, A.S. Mikhailov, and M. Kiskinova. Surface-supported metallic mesostructures through reaction-controlled phase separation. In *International Conference on NANO-Structures Self-Assembling*, Aix-en-Provence, France, 2-6 July, 2006 [**Oral**].

[70] **A. Locatelli**, T.O. Menteş, L. Aballe, F.Z. Guo, and M. Kiskinova. Self organization processes in Au and Au+Pd ultra-thin films on Rh(110). In *ALC05, Atomic level characterization of new materials and devices symposium*, Kona, Hawai, December 5-9, 2005 [**Invited oral**].

[71] **A. Locatelli**. Self organisation of ultra-thin Au and Au-Pd films on a Rh model catalyst. In *Arizona State University, Dept of Physics and Astronomy*, Tempe, AZ, December 12, 2005 [**Seminar**].

[72] **A. Locatelli**, T.O. Menteş, F.Z. Guo, and M. Kiskinova. Pattern formation by self organization processes in Au/Pd ultra-thin films on Rh(110). In *ECOSS 23*, Berlin, September 4-9, 2005 [**Oral**].

[73] **A. Locatelli**. Nanospectroscopy beamline at Elettra: Developments and research projects. In *Berliner Elektronenspeicherring-Gesellschaft fr Synchrotronstrahlung (BESSY)*, Berlin, January 19, 2005 [**Seminar**].

[74] **A. Locatelli** and M. Kiskinova. Re-organisation processes during water formation reaction on a Au-modified Rh surface. In *FHI Fritz-Haber-Institut der Max-Planck-Gesellschaft*, Berlin, January 18, 2005 [**Seminar**].

[75] **A. Locatelli**, S. Heun, and M. Kiskinova. Morphological reorganisation of a bimetallic catalytic surface under oxidation and reduction conditions. In *4th International Conference on LEEM/PEEM*, Twente, Netherlands, May 9-13, 2004 [**Oral**].

[76] **A. Locatelli**, S. Heun, and M. Kiskinova. Direct observation of reaction-induced spatial redistribution of sub-monolayers of Au deposited on a Rh(110) surface. In *ECOSS 22*, Praha, Czech Republic, September 7-12, 2003 [**Oral**].

[77] **A. Locatelli**, S. Heun, and M. Kiskinova. Direct observation of reaction-induced spatial redistribution of sub-monolayers of Au deposited on a Rh(110) surface. In *AIC-SILS*, Trieste, Italy, July 21-25, 2003 [**Oral**].