

Ian Jamie  
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School of Natural Sciences  
MQ Photonics Research Centre  
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## Biography

Ian graduated with a PhD in Chemistry from the University of Queensland in 1989. Post-docs at the Research School of Chemistry, Australian National University, Department of Physics, Australian Defence Force Academy, UNSW (Canberra), Department of Chemistry, University of Wollongong and the Department of Chemistry, University of Sydney, followed. Ian started at Macquarie University, in the then Department of Chemistry, in 2000.

Ian's interests lie broadly in the field of environmental chemistry, particularly gas phase and atmospheric chemistry, and chemistry education. He has conducted research on greenhouse gas fluxes at the atmosphere-soil interface, greenhouse gas emissions from livestock, formation and characterisation of secondary organic aerosols, and volatile organic compound (VOC) emissions from plants and animals. At the moment his primary area of research is the development of new attractant compounds for population monitoring and control of insects, particularly fruit fly, and investigating pheromone profiles of these insects.

Ian was one of the founders of what is now the Advancing Science by Enhancing Laboratory Learning (ASELL) project. He has contributed to the development of the Chemistry Threshold Learning Outcome (CTLO) and is engaged in improving assessment methods in Chemistry.

Ian is a Director of the National Indigenous Science Education Program (NISEP). NISEP's aim is to help low socioeconomic communities change their youth's attitudes towards, engagement with, and aspirations for education. By using science engagement, NISEP seeks to provide Indigenous students with the skills and attitudes required to secure science and technology-based education and employment opportunities.

Ian is a Fellow of the Royal Australian Chemical Institute (RACI), a past Chair of the RACI Chemical Education Division and a recipient of the RACI Pearson Educator of the Year (2009). He has also been awarded the Macquarie University Vice-Chancellor's Award for Teaching Excellence (2007), a Carrick (ALTC) Award for Australian University Teaching - Citation for Outstanding Contribution to Student Learning (2007), Carrick (ALTC) Award for Programs that Enhance Learning - Educational Partnerships and Collaborations with Other Organisations (2007), three-time finalist in the Eureka Awards for Promoting Understanding of Science (2007, 2008, 2009), an Australian Learning and Teaching Council Australian Awards for University Teaching: Awards for Programs that Enhance Learning - Educational Partnerships and Collaborations with Other Organisations (2011) and two-times finalist in the Australian Financial Review Higher Education Awards - Community Engagement (2016, 2017).

## Qualifications

- 1 Jan 2018 HDR Supervision Orientation 2018-2020, HDR30
- 4 Sept 2017 HDR Supervision-Thesis by Publication, HDR15
- 10 Nov 2015 HDR Supervision Training (Historic Record), HDR99
- 16 Jul 2014 HDR Supervision Training (Historic Record), HDR99
- 24 May 2012 HDR Supervision Training (Historic Record), HDR99
- 8 Sept 2010 HDR Supervision Training (Historic Record), HDR99

## Employment

Senior Lecturer  
Senior Lecturer  
School of Natural Sciences  
Macquarie University  
1 Jan 2022 → present

**MQ Photonics Research Centre**  
Macquarie University  
1 Jul 2007 → present

**Chief Examiner, HSC Chemistry**  
NSW Board of Studies  
Australia

## Research output

### National Indigenous Science Education Program (NISEP): outreach strategies that facilitate inclusion

Barnes, E. C., Jamie, I. M., Vemulpad, S. R., Yaegl Community Elders, Breckenridge, D., Froud, A. E., Harrington, D. G., Packer, J. M., Prenzler, P. D., Bedgood, Jr., D. R. & Jamie, J. F., 11 Jan 2022, In: *Journal of Chemical Education*. 99, 1, p. 245-251 7 p.

### Electrophysiological responses of *Bactrocera kraussi* (Hardy) (Tephritidae) to rectal gland secretions and headspace volatiles emitted by conspecific males and females

Noushini, S., Park, S. J., Perez, J., Holgate, D., Mendez, V., Jamie, I. M., Jamie, J. F. & Taylor, P. W., 2 Aug 2021, In: *Molecules*. 26, 16, p. 1-19 19 p., 5024.

### Rectal gland exudates and emissions of *Bactrocera bryoniae*: chemical identification, electrophysiological and pheromonal functions

Noushini, S., Park, S. J., Jamie, I., Jamie, J. & Taylor, P., Apr 2021, In: *Chemoecology*. 31, 2, p. 137-148 12 p.

### Sampling technique biases in the analysis of fruit fly volatiles: a case study of Queensland fruit fly

Noushini, S., Park, S. J., Jamie, I., Jamie, J. & Taylor, P., 13 Nov 2020, In: *Scientific Reports*. 10, p. 1-14 14 p., 19799.

### Vapor pressures and thermodynamic properties of phenylpropanoid and phenylbutanoid attractants of male *Bactrocera*, *Dacus*, and *Zeugodacus* fruit flies at ambient temperatures

Cameron, D. N. S., McRae, C., Park, S. J., Taylor, P. W. & Jamie, I. M., 9 Sept 2020, In: *Journal of Agricultural and Food Chemistry*. 68, 36, p. 9654-9663 10 p.

### Insecticidal activity of ring-fluorinated benzyl acetone analogs in Queensland fruit fly, a softer class of insecticides

Park, S. J., Peso, M., Jamie, I. M. & Taylor, P. W., Sept 2020, In: *Journal of Pest Science*. 93, 4, p. 1369-1380 12 p.

### Zingerone in the flower of *Passiflora maliformis* attracts an Australian fruit fly, *Bactrocera jarvisi* (Tryon)

Park, S. J., De Faveri, S. G., Cheesman, J., Hanssen, B. L., Cameron, D. N. S., Jamie, I. M. & Taylor, P. W., 2 Jun 2020, In: *Molecules*. 25, 12, p. 1-11 11 p., 2877.

### Attraction and electrophysiological response to identified rectal gland volatiles in *Bactrocera frauenfeldi* (Schiner)

Noushini, S., Perez, J., Jean Park, S., Holgate, D., Alvarez, V. M., Jamie, I., Jamie, J. & Taylor, P., 2 Mar 2020, In: *Molecules*. 25, 6, p. 1-14 14 p., 1275.

### Rectal gland chemistry, volatile emissions, and antennal responses of male and female banana fruit fly, *Bactrocera musae*

Noushini, S., Perez, J., Park, S. J., Holgate, D., Jamie, I., Jamie, J. & Taylor, P., Jan 2020, In: *Insects*. 11, 1, p. 1-12 12 p., 32.

### Systematic modification of zingerone reveals structural requirements for attraction of Jarvis's fruit fly

Hanssen, B. L., Park, S. J., Royer, J. E., Jamie, J. F., Taylor, P. W. & Jamie, I. M., 18 Dec 2019, In: *Scientific Reports*. 9, p. 1-11 11 p., 19332.

### Improving the assessment of transferable skills in chemistry through evaluation of current practice

Schultz, M., O'Brien, G., Schmid, S., Lawrie, G. A., Southam, D. C., Priest, S. J., Lim, K. F., Pyke, S. M., Bedford, S. B. & Jamie, I. M., 2019, *Research and practice in chemistry education: Advances from the 25th IUPAC International Conference on Chemistry Education 2018*. Schultz, M., Schmid, S. & Lawrie, G. A. (eds.). Singapore: Springer, Springer Nature, p. 255-274 20 p.

### Development of a new smog chamber for studying the impact of different UV lamps on SAPRC chemical mechanism predictions and aerosol formation

White, S., Angove, D., Li, K., Campbell, I., Element, A., Halliburton, B., Lavrencic, S., Cameron, D., Jamie, I. & Azzi, M., 2018, In: *Environmental Chemistry*. 15, 3, p. 171-182 12 p.

**The River of learning: building relationships in a university, school and community Indigenous widening participation collaboration**

Whiteford, G., Hunter, J., Jamie, J., Pitson, R., Breckenridge, D., Elders, Y., Vemulpad, S., Harrington, D. & Jamie, I., 10 Nov 2017, In: Higher Education Research and Development. 36, 7, p. 1490-1502 13 p.

**Electroantennogram responses of six *Bactrocera* and *Zeugodacus* species to raspberry ketone analogues**

Siderhurst, M. S., Park, S. J., Jamie, I. M. & De Faveri, S. G., 2017, In: Environmental Chemistry. 14, 6, p. 378-384 7 p.

**The role of natural products chemistry in the capability strengthening of Indigenous communities**

Barnes, E. C., Yin, P., Akter, K., Jamie, I., Yaegl, C. E., Vemulpad, S. R. & Jamie, J. F., Dec 2016, In: *Planta Medica*. 82, S 01, P231.

**Fiber-optical coupling in agricultural and environmental sensing, based on open-path cavity ringdown spectroscopy**

Orr, B. J., He, Y., Hill, J. & Jamie, I. M., 29 Aug 2016, *Photonics and Fiber Technology 2016 (ACOFT, BGPP, NP): proceedings*. OSA - The Optical Society, p. 1-2 2 p. AT3C.5

**Raspberry ketone analogs: Vapour pressure measurements and attractiveness to Queensland fruit fly, *Bactrocera tryoni* (Froggatt) (Diptera: Tephritidae)**

Park, S. J., Morelli, R., Hanssen, B. L., Jamie, J. F., Jamie, I. M., Siderhurst, M. S. & Taylor, P. W., 19 May 2016, In: PLoS ONE. 11, 5, p. 1-16 16 p., e0155827.

**Raspberry Ketone Trifluoroacetate, a New Attractant for the Queensland Fruit Fly, *Bactrocera Tryoni* (Froggatt)**

Siderhurst, M. S., Park, S. J., Buller, C. N., Jamie, I. M., Manoukis, N. C., Jang, E. B. & Taylor, P. W., 1 Feb 2016, In: Journal of Chemical Ecology. 42, 2, p. 156-162 7 p.

**Assessing the assessments: development of a tool to evaluate assessment items in chemistry according to learning outcomes**

Schmid, S., Schultz, M., Priest, S. J., O'Brien, G., Pyke, S. M., Bridgeman, A., Lim, K. F., Southam, D. C., Bedford, S. B. & Jamie, I. M., 2016, *Technology and assessment strategies for improving student learning in chemistry*. Schultz, M., Schmid, S. & Holme, T. (eds.). Washington, DC: American Chemical Society, Vol. 1235. p. 225-244 20 p. (ACS Symposium Series; vol. 1235).

**Hydrolysis of Queensland fruit fly, *Bactrocera tryoni* (Froggatt), Attractants: kinetics and implications for biological activity**

Park, S. J., Siderhurst, M. S., Jamie, I. & Taylor, P. W., 2016, In: Australian Journal of Chemistry. 69, 10, p. 1162-1166 5 p.

**Development, evaluation and use of a student experience survey in undergraduate science laboratories: the advancing science by enhancing learning in the laboratory student laboratory learning experience survey**

Barrie, S. C., Bucat, R. B., Buntine, M. A., Burke da Silva, K., Crisp, G. T., George, A. V., Jamie, I. M., Kable, S. H., Lim, K. F., Pyke, S. M., Read, J. R., Sharma, M. D. & Yeung, A., 24 Jul 2015, In: International Journal of Science Education. 37, 11, p. 1795-1814 20 p.

**Species-specific photorespiratory rate, drought tolerance and isoprene emission rate in plants**

Dani, K. G. S., Jamie, I. M., Prentice, I. C. & Atwell, B. J., 2015, In: Plant signaling & behavior. 10, 3, p. 1-3 3 p., e990830.

**Transforming assessment practice: evidencing and benchmarking student learning outcomes in chemistry**

Schmid, S., Bedford, S., Southam, D., Bridgeman, A., O'Brien, G., Jamie, I. M., Lawrie, G., Lim, K. F., Priest, S., Pyke, S. & Schultz, M., 2015, *Proceedings of the Australian conference on science and mathematics education (21st Annual UniServe Science Conference)*. Sydney, New South Wales: University of Sydney, p. 65-65 1 p.

**Remote optical sensing of trace gases in air by fiber-coupled open-path cavity-ringdown spectroscopy**

He, Y., Kan, R., Jamie, I. M. & Orr, B. J., Dec 2014, *Light, Energy and the Environment*. Washington, DC: OSA Publishing , p. 1-3 3 p. ETu3A.3

**Increased ratio of electron transport to net assimilation rate supports elevated isoprenoid emission rate in eucalypts under drought**

Dani, K. G. S., Jamie, I. M., Prentice, I. C. & Atwell, B. J., 1 Oct 2014, In: *Plant Physiology*. 166, 2, p. 1059-1072 14 p.

**Remote open-path cavity-ringdown spectroscopic sensing of trace gases in air, based on distributed passive sensors linked by km-long optical fibers**

He, Y., Jin, C., Kan, R., Liu, J., Liu, W., Hill, J., Jamie, I. M. & Orr, B. J., 2 Jun 2014, In: *Optics Express*. 22, 11, p. 13170-13189 20 p.

**Chemical characterisation of semi-volatile and aerosol compounds from the photooxidation of toluene and NO<sub>x</sub>**

White, S. J., Jamie, I. M. & Angove, D. E., Feb 2014, In: *Atmospheric Environment*. 83, p. 237-244 8 p.

**Evolution of isoprene emission capacity in plants**

Dani, K. G. S., Jamie, I. M., Prentice, I. C. & Atwell, B. J., 2014, In: *Trends in Plant Science*. 19, 7, p. 439-446 8 p.

**Manipulating molecules: using Kinect for immersive learning in chemistry**

Jamie, I. M. & McRae, C. R., 2011, *Proceedings of The Australian Conference on Science & Mathematics Education 2011*. Sharma, M. & Yeung, A. (eds.). Melbourne: University of Melbourne, p. 22 1 p.

**Modelling the photooxidation of ULP, E5 and E10 in the CSIRO smog chamber**

White, S. J., Azzi, M., Angove, D. E. & Jamie, I. M., Dec 2010, In: *Atmospheric Environment*. 44, 40, p. 5375-5382 8 p.

**Evaluation of the SAPRC-07 mechanism against CSIRO smog chamber data**

Azzi, M., White, S. J., Angove, D. E., Jamie, I. M. & Kaduewela, A., May 2010, In: *Atmospheric Environment*. 44, 14, p. 1707-1713 7 p.

**Evaluation of isoprene photooxidation using smog chamber data and chemical mechanisms**

White, S., Azzi, M., Angove, D., Jamie, I. & Singh-Peterson, L., 2009, *19th International Clean Air and Environment Conference: conference proceedings*. Australia: Clean Air Society of Australia and New Zealand, p. 1-7 7 p.

**The Effect of elevated CO<sub>2</sub> on the emission of Biogenic Volatile Organic Compounds**

Camenzuli, M. & Jamie, I., 2009, *19th International Clean Air and Environment Conference: conference proceedings*. Australia: Clean Air Society of Australia and New Zealand, p. 1-7 7 p.

**What makes a good laboratory learning exercise? student feedback from the ACELL project**

George, A. V., Read, J. R., Barrie, S. C., Bucat, R. B., Buntine, M. A., Crisp, G. T., Jamie, I. M. & Kable, S. H., 2009, *Chemistry education in the ICT age*. Gupta-Bhowon, M., Jhaumeer-Laulloo, S., Wah, H. L. K. & Ramasami, P. (eds.). Berlin: Springer, Springer Nature, p. 363-376 14 p.

**Advancing Chemistry by Enhancing Learning in the Laboratory (ACELL): A model for providing professional and personal development and facilitating improved student laboratory learning outcomes**

Buntine, M. A., Read, J. R., Barrie, S. C., Bucat, R. B., Crisp, G. T., George, A. V., Jamie, I. M. & Kable, S. H., Apr 2007, In: *Chemistry Education Research and Practice*. 8, 2, p. 232-254 23 p.

**A Proposal for Laboratory-Based Teaching and Learning Enhancement in Secondary Education**

Jamie, I., Barrie, S., Buntine, M., Bucat, R., Crisp, G., George, A., Kable, S. & Read, J. R., 2007, p. 87-87. 1 p.

**Cavity ringdown spectroscopy of simple volatile organic compounds**

Jamie, I., Donnelly, C. W., Orr, B. J. & He, Y., 2007, p. 30-30. 1 p.

**From APCELL to ACELL and beyond - expanding a multi-institution project for laboratory-based teaching and learning**

Jamie, I. M., Read, J. R., Barrie, S. C., Bucat, R. B., Buntine, M. A., Crisp, G. T., George, A. V. & Kable, S. H., 2007, In: *Australian journal of education in chemistry*. 2007, 67, p. 7-13 7 p.

**Synthesis and Infrared Spectrum of Peroxyacryloyl Nitrate (APAN)**  
Donnelly, C. W. & Jamie, I., 2007, p. PP13-PP13. 1 p.

**Real-time field measurements of stable isotopes in water and CO<sub>2</sub> by Fourier transform infrared spectrometry**  
Griffith, D. W. T., Jamie, I., Esler, M., Wilson, S., Parkes, S., Waring, C. & Bryant, G. W., Mar 2006, In: *Isotopes in Environmental and Health Studies*. 42, 1, p. 9-20 12 p.

**A fluorescence-based assay for indoleamine 2,3-dioxygenase**  
Matin, A., Streete, I. M., Jamie, I. M., Truscott, R. J. W. & Jamie, J. F., 1 Feb 2006, In: *Analytical Biochemistry*. 349, 1, p. 96-102 7 p.

**ACELL: providing professional development whilst building a community of practice**  
Bucat, R., Barrie, S., Buntine, M., Crisp, G., George, A., Jamie, I., Kable, S. & Read, J., 2006, *Proceedings of the 19th International Conference on Chemical Education*. Seoul, Korea: Korean Chemical Society, p. 68 1 p.

**ACELL: improving student learning in the laboratory environment**  
Read, J., Barrie, S., Buntine, M., Bucat, R., Crisp, G., George, A., Jamie, I. & Kable, S., 2006, *Proceedings of the 19th International Conference on Chemical Education*. Seoul, Korea: Korean Chemical Society, p. 67 1 p.

**Achievements of an ACELL workshop**

Read, J. R., Barrie, S. C., Bucat, R. B., Buntine, M. A., Crisp, G. T., George, A. V., Jamie, I. M. & Kable, S. H., 2006, In: *Chemistry in Australia*. 73, 9, p. 17-20 4 p.

**Engaging nationally in a discipline based community of practice: lessons for success**

Barrie, S. C., Crisp, G. T., Buntine, M. A., Kable, S. H., Read, J. R., Bucat, R. M., Jamie, I. M. & George, A. V., 2006.

**SPME-GC/MS investigations of volatile organic compounds emitted from Australian plants**  
Camenzuli, M., Gautam, A., Jamie, I. M. & McRae, C. R., 2006, *INTERACT 2006: air, water and earth : INTERACT in Perth : program and abstracts*. Canning Bridge, W.A.: Promaco Conventions for the Conference, p. 121 1 p.

**The ACELL project: student participation, professional development, and improving laboratory learning**

Read, J. R., Buntine, M. A., Crisp, G. T., Barrie, S. C., George, A. V., Kable, S. H., Bucat, R. B. & Jamie, I. M., 2006, *Symposium proceedings: assessment in science teaching and learning : September 28, 2006 : the University of Sydney*. Sydney: UniServe Science, p. 113-119 7 p.

**The Australian chemistry enhanced laboratory learning project**

Read, J., Barrie, S., Buntine, M., Bucat, R., Crisp, G., George, A., Jamie, I. & Kable, S., 2006, p. 127. 1 p.

**A fluorescence-based assay for indoleamine 2,3-dioxygenase**

Jamie, I., Jamie, J. F., Truscott, R. J. W., Matin, A. & Streete, I., 2005.

**Greenhouse gas emissions from heavy-duty dual-fuel vehicles**

Jamie, I., Cant, N., Nelson, P. & Patterson, M., 2005, *Towards a new agenda: proceedings 17th International Clean Air & Environment Conference, Hobart, Tasmania, 3-6 May 2005*. Hooper, M. (ed.). Hobart: Convention Wise, 6 p.

**Indoleamine 2,3-dioxygenase (IDO) Struture-Activity Relationship Studies**

Matin, A., Austin, C., Streete, I., Jamie, I., Truscott, R. & Jamie, J. F., 2004, p. 56-56. 1 p.

**Indoleamine 2,3-Dioxygenase (IDO) Tryptophan Based Inhibitors and a Fluorescence-Based Assay**

Matin, A., Austin, C. J. D., Jamie, I., Truscott, R. J. W. & Jamie, J. F., 2004, p. 128-128. 1 p.

**Synthesis and Biological Testing of Tryptophan Based Indoleamine 2,3-dioxygenase Inhibitors**  
Matin, A., Austin, C., Streete, I., Jamie, I., Truscott, R. & Jamie, J. F., 2004, p. 47-47. 1 p.

**Catalysing the transition into the unknown: A student advocate in chemistry education**  
Jamie, I., Fraser, S. & Haklani, C., 2003, *Learning for an Unknown Future Programme and Abstracts*. Bond, C. & Bright, P. (eds.). Milperra, Australia: Research and Development in Higher Education, p. 75-75 1 p.

**Development of an Indoleamine 2,3-Dioxygenase Fluorescence Based Assay**  
Matin, A., Austin, C., Zhang, C., Yin, W., Li, X., Truscott, R., Cook, J., Jamie, I. & Jamie, J. F., 2003.

**Learning generic skills in first year chemistry**  
Jamie, I., George, A. V., Dickson, N. J., Engelsman, M. & Kay, D., 2003.

**The Australian Chemistry Enhanced Laboratory Learning Project: Catalysing Effective Laboratory-Based Teaching and Learning**  
Jamie, I., Barrie, S., Kable, S. H. & Buntine, M. A., 2003, p. 63-63. 1 p.

Air-land exchanges of CO<sub>2</sub>, CH<sub>4</sub> and N<sub>2</sub>O measured by FTIR spectrometry and micrometeorological techniques  
Griffith, D. W. T., Leuning, R., Denmead, O. T. & Jamie, I. M., 2002, In: *Atmospheric Environment*. 36, 11, p. 1833-1842 10 p.

APCELL: developing better ways of teaching in the laboratory  
Barrie, S. C., Buntine, M. A., Jamie, I. & Kable, S. H., 2002.

**Reviving teaching and learning in the laboratory**  
Jamie, I., Barrie, S., Buntine, M. & Kable, S., 2002, p. 29-29. 1 p.

**The student advocate: providing a student voice and catalysing the adopting of reflective practices**  
Jamie, I., Fraser, S. & Haklani, C., 2002, *Celebrating teaching at Macquarie*. North Ryde, NSW: Macquarie University, 7 p.

APCELL: The Australian Physical Chemistry Enhanced Laboratory Learning Project  
Barrie, S. C., Buntine, M. A., Jamie, I. & Kable, S. H., 2001, In: *Australian journal of education in chemistry*. 57, p. 6-12 7 p.

APCELL: Developing Better Ways of Teaching in the Laboratory  
Barrie, S. C., Buntine, M. A., Jamie, I. & Kable, S. H., 2001, *Proceedings of Research and Development into University Science Teaching and Learning Workshop, Uniserve Science 2001*. Fernandez, A. (ed.). Sydney: UniServe Science, p. 23-28 6 p.

Nitrous oxide emissions from grazed pastures: Measurements at different scales  
Denmead, O. T., Leuning, R., Jamie, I. & Griffith, D. W. T., 2000, In: *Chemosphere - Global Change Science*. 2, 3-4, p. 301-312 12 p.

Verifying inventory predictions of animal methane emissions with meteorological measurements  
Denmead, O. T., Leuning, R., Griffith, D. W. T., Jamie, I. M., Esler, M. B., Harper, L. A. & Freney, J. R., 2000, In: *Boundary-Layer Meteorology*. 96, 1-2, p. 187-209 23 p.

Methane emission from free-ranging sheep: A comparison of two measurement methods  
Leuning, R., Baker, S. K., Jamie, I. M., Hsu, C. H., Klein, L., Denmead, O. T. & Griffith, D. W. T., Apr 1999, In: *Atmospheric Environment*. 33, 9, p. 1357-1365 9 p.

Magnetic Ordering in Two Dimensional Manganese Stearate Films: A Nuclear Orientation Study  
Hutchison, W. D., Clark, R. G., Yazidjoglou, N., Jamie, I. M., Chaplin, D. H. & Creagh, D. C., 18 Dec 1998, In: *Solid State Communications*. 109, 4, p. 239-242 4 p.

FTIR in the paddock: trace gas soil flux measurements using FTIR spectroscopy

Griffith, D. W. T., Jamie, I. M., Beasley, P. A., Denmead, O. T., Leuning, R., Galbally, I. E. & Meyer, C. P., 1998, *Fourier Transform Spectroscopy: Eleventh International Conference*. De Haseth, J. A. (ed.). Melville: American Institute of Physics , p. 211-214 4 p. (AIP Conference Proceedings; vol. 430).

Interaction of phosphotungstate ions with phospholipid monolayers. A synchrotron X-ray study

Barnes, G. T., Gentle, I. R., Kennard, C. H. L., Peng, J. B. & Jamie, I. M. L., Jan 1995, In: *Langmuir*. 11, 1, p. 281-285 5 p.

Effects of acyl chain length on the conformation of myelin basic protein bound to lysolipid micelles

Mendz, G. L., Jamie, I. M. L. & White, J. W., 1992, In: *Biophysical Chemistry*. 45, 1, p. 61-77 17 p.

Two-dimensional caesium-ammonia solid solutions in  $C_{28}Cs(NH_3)_x$

Carlile, C. J., Jamie, I. M. L., Lockhart, G. & White, J. W., 1992, In: *Molecular Physics*. 76, 1, p. 173-200 28 p.

Physicochemical characterization of dodecylphosphocholine/palmitoyllysophosphatidic acid/myelin basic protein complexes

Mendz, G. L., Miller, D. J., Jamie, I. M., White, J. W., Brown, L. R., Ralston, G. B. & Kaplin, I. J., 2 Jul 1991, In: *Biochemistry*. 30, 26, p. 6509-6516 8 p.

Rotational tunnelling of ammonia in two-dimensional metal-ammonia solutions

Carlile, C., Jamie, I. M. L., White, J. W., Prager, M. J. & Stead, W., 1991, In: *Journal of the Chemical Society, Faraday Transactions*. 87, 1, p. 73-81 9 p.

Solvation and ion association in solutions containing oxyanions

James, D. W., Mayes, R. E., Leong, W. H., Jamie, I. M. L. & Zhen, G., 1988, In: *Faraday Discussions of the Chemical Society*. 85, p. 269-281 13 p.

Thermal and collective diffusion in polymer solutions: A small angle light scattering study

Jamie, I. M., James, D. W. & Geissler, E., 15 Dec 1985, In: *Optics Communications*. 56, 4, p. 255-260 6 p.

## Prizes

### 2019 Department of Industry, Innovation and Science Eureka Prize for STEM Inclusion

Jamie, Joanne (Recipient), Jamie, Ian (Recipient), Vemulpad, Subramanyam (Recipient), Heron, Ronald (Recipient), Prenzler, Paul (Recipient) & Bedgood, Dan (Recipient), 28 Aug 2019

### 2021 AFR Higher Education Award - Opportunity and Inclusion

Jamie, Joanne (Recipient), Jamie, Ian (Recipient), Vemulpad, Subramanyam (Recipient) & Barnes, Emma (Recipient), 12 Nov 2021

### Australian Learning and Teaching Council Australian Awards for University Teaching: Awards for Programs that Enhance Learning - Educational Partnerships and Collaborations with Other Organisation

Jamie, Ian (Recipient), Jamie, Joanne (Recipient), Vemulpad, Subramanyam (Recipient) & Harrington, David (Recipient), 2011

### Carrick Award for Australian University Teaching

Jamie, Ian (Recipient), Kable, Scott H. (Recipient), Buntine, Mark A. (Recipient), Barrie, Simon C. (Recipient) & Read, Justin R. (Recipient), 2007

### Carrick Award for Australian University Teaching - Citation for Outstanding Contribution to Student Learning

Jamie, Ian (Recipient), Buntine, Mark A. (Recipient), Kable, Scott H. (Recipient), Read, Justin R. (Recipient) & Barrie, Simon C. (Recipient), 2007

**Finalist - AFR Higher Education Awards - Community Engagement**

Jamie, Ian (Recipient), Jamie, Joanne (Recipient), Vemulpad, Subramanyam (Recipient) & Barnes, Emma (Recipient), 2017

**Finalist - AFR Higher Education Awards - Community Engagement**

Jamie, Ian (Recipient), Jamie, Joanne (Recipient), Vemulpad, Subramanyam (Recipient) & Barnes, Emma (Recipient), 2016

**Finalist - Eureka Awards for Promoting Understanding of Science**

Jamie, Ian (Recipient), Jamie, Joanne (Recipient) & Vemulpad, Subramanyam (Recipient), 2008

**Finalist - Eureka Awards for Promoting Understanding of Science**

Jamie, Ian (Recipient), Jamie, Joanne (Recipient) & Vemulpad, Subramanyam (Recipient), 2007

**Finalist - Eureka Awards for Promoting Understanding of Science**

Jamie, Ian (Recipient), Jamie, Joanne (Recipient) & Vemulpad, Subramanyam (Recipient), 2009

**Macquarie University Faculty of Science Learning and Teaching Awards**

Jamie, Ian (Recipient), 2010

**Macquarie University Innovation in Partnership Award**

Jamie, Ian (Recipient), Jamie, Joanne (Recipient), Vemulpad, Subramanyam (Recipient), Kohen, James (Recipient) & Harrington, David (Recipient), 2007

**Macquarie University Vice-Chancellor's Award for Teaching Excellence**

Jamie, Ian (Recipient), 2007

**Pearson Education RACI Chemistry Educator of the Year**

Jamie, Ian (Recipient), 2009

## Awards

### Projects

**Assessing the assessments: evidence and benchmarking student learning outcomes in chemistry**

Jamie, I., Schmid, S., O'Brien, G., Lim, K., Pyke, S., Schultz, M., Southam, D. & Bridgeman, A.  
27/06/14 → 8/08/16

**Biosecurity Futures Research Centre**

Taylor, P., Gillings, M., Raftos, D., Leishman, M., Sunna, A., Bishop, M., Barron, A., Beattie, A., Beaumont, L., Connally, R., Grech, A., Griffith, S., Guillemin, G., Hughes, L., Inglis, D., Jamie, I., Jamie, J., Lu, Y., Morelli De andrade, R., Nevalainen, H., Park, S. J., Perez, J., Power, M., Ranjan, R. & Vickery, K.  
1/07/15 → ...

**Combined gas chromatography/ electroantennogram detector for insect olfaction research**

Taylor, P., Jamie, I., Herberstein, M., Kemp, D., Barron, A., Jamie, J., Akter, H., Adnan, S., Moadeli, T., Masud, K., Bakshi, D. & MQRES, M.  
1/01/15 → 31/12/15

**ELS, ICS, HUM - X-Ray Diffractometer ( XRD )**

Gore, D., Fanning, P., Fryirs, K., Goldys, E., Gulson, B., Hesse, P., Humphreys, G., Jamie, I., Leishman, M., Taylor, M., Van Dyke, K. & Withford, M.

1/01/07 → 31/12/07

**Gas Chromatography - Mass Spectrometry Instrument for Small Molecule Research Programs**  
Nelson, P., Gore, D., Herberstein, M., Jamie, I., McRae, C., Roberts, T., Strezov, V. & Willows, R.  
1/07/06 → 31/12/06

**Improving efficacy of MAT to enhance area-wide management of Queensland fruit fly**  
Taylor, P., Collins, S., Jamie, I., Dominiak, B., Jessup, A., Crisp, P., Gu, H. & MQRES, M.  
1/11/12 → 31/03/16

**ISE 2021: Indigenous Science Experience @ Redfern**  
Jamie, J., Jamie, I. & Vemulpad, S.  
1/04/21 → 22/09/21

**ISE 2022: Indigenous Science Experience @ Redfern 2022**  
Jamie, J. & Jamie, I.  
1/04/22 → 28/09/22

**Label free high content analysis**  
Jamie, I., White, S. & Angove, D.  
16/03/09 → 1/02/12

**Larval diets for high-productivity mass-rearing of Queensland fruit fly for SIT**  
Ponton, F., Taylor, P., Crisp, P., Jessup, A., Jamie, I., Chang, S., Fanson, B., Riegler, M., MQRES (International), M. & Rempoulakis, P.  
30/06/14 → ...

**Measuring and managing methane emissions from livestock: from laboratory to landscape**  
Orr, B., Jamie, I. & Chen, D.  
1/07/11 → 30/06/15

**National Indigenous Science Engagement Program - NISEP**  
Jamie, J., Vemulpad, S. & Jamie, I.  
1/07/12 → 28/02/15

**Next generation fluorimetry - Agilent Eclipse system**  
Goldys, E., Jamie, J., Downes, J., Liu, F., Inglis, D. & Jamie, I.  
1/01/13 → 31/12/13

**ORS: Opening real science: Authentic mathematics and science education for Australia**  
Mulligan, J., Pask, H., Hedberg, J., Smith, P., Bilgin, A., Dawes, J., Parker, Q., Herberstein, M., Power, M., Jamie, I., O'Reilly, S., O'Neill, C. J., Charters, W., Papic, M., Bower, M., Cavanagh, M., Stewart, K., Wood, L., Bridge, D., An, S., Kennett, C., Highfield, K., De Nobile, J., Diao, M. M., Tilley, G., Irvine, P., Jones, H., Stupar, M., Frew, D. & Cody, C.  
7/08/13 → 31/12/17

**Purge and trap concentrator with autosampler for analysis of volatile organic compounds in water and soil samples**  
George, S., Brock, G., Jamie, I., Nelson, P., Hose, G., Bishop, M., Schaefer, B., Goodwin, I., Armand, L. & Williamson, J.  
1/01/10 → 31/12/10

**Rapid Isolation System**  
Karusoo, P., Taylor, P., Piggott, A., Liu, F., Jamie, J., Park, S. J., Jamie, I., Keaveney, S., Venkatesan, K. & Wong, D.  
1/01/20 → 31/12/20

**Sex selection genes from fruit fly species for use in SITplus**  
Taylor, P., Edwards, O., Schetelig, M., Bourtzis, K., Geib, S., Crisp, P., Choo, A., Ponton, F., Ranganathan, S., Herberstein, M., Rane, R., Jamie, J., Jamie, I., Mendez Alvarez, V. & Perez, J.

9/11/18 → 19/10/22

**The Indigenous Science Experience @ Redfern**

Jamie, J. & Jamie, I.  
1/04/16 → 31/10/16

**The Indigenous Science Experience @ Redfern**

Jamie, J., Vemulpad, S. & Jamie, I.  
1/03/17 → 24/09/17

**The Indigenous Science Experience @ Redfern**

Jamie, J., Jamie, I. & Vemulpad, S.  
27/03/14 → 28/11/14

**ISE2023: The Indigenous Science Experience @ Redfern**

Jamie, J. & Jamie, I.  
5/06/23 → 18/09/23

**Thermal Desorption Capability for Molecular Analysis**

George, S., Prentice, C., Taylor, P., Jamie, J., Atwell, B. & Jamie, I.  
1/01/13 → 31/12/13