

ALISTAIR JOHN LEES

Telephone (607) 777-2362 (office), (607) 621-9318 (cell)

alees@binghamton.edu

EDUCATION

B.Sc. (Honors), Chemistry, 1976, University of Newcastle-upon-Tyne, England

Ph.D., Inorganic Chemistry, 1979, University of Newcastle-upon-Tyne, England

D.Sc., Chemistry, 2005, University of Newcastle-upon-Tyne, England

(The DSc, Higher Doctorate, degree is awarded only for published work of an exceptional standard containing original contributions to the advancement of knowledge and learning which has given the candidate international distinction in their field of study. The published work should provide evidence of: (a) a sustained and consistent contribution over a number of years; and (b) a reasonable degree of coherence which helps to establish a candidate's distinction in their field of study; and (c) the originality of the candidate's contribution to their field of study; and (d) seminal publications which have led to extensions or developments by others).

PROFESSIONAL EXPERIENCE

Vice Provost for Faculty Affairs, SUNY-Binghamton, 2023-present

Professor, Department of Chemistry, SUNY-Binghamton, USA, 1989-present

Chair, Department of Chemistry, SUNY-Binghamton, USA, 1990-92, 1995-2003, 2006-9, 2012-13, Co-Chair, Department of Biological Sciences, 2016-19

Visiting Professor, Department of Chemistry, University of York, England, 1997, 2004-05

Professor and Dean, Faculty of Science, University of Central Lancashire, England, 1992-94

Visiting Professor, Department of Chemistry, University of Cambridge, England, 1988-89

Associate Professor, Department of Chemistry, SUNY-Binghamton, USA, 1986-89

Visiting Professor, IBM Corporation, USA, 1983

Assistant Professor, Department of Chemistry, SUNY-Binghamton, USA, 1981-86

Postdoctoral Fellow, Department of Chemistry, University of Southern California, USA, with Prof. A. W. Adamson, 1979-81

CONSULTANCY

Anitec Image Corporation, USA, 1983-92

IBM Corporation, USA, 1983-96

General Electric Corporation, USA, 1998-03

HONORS AND AWARDS

Science Research Council Fellowship, 1976-79

Office of Naval Research, Postdoctoral Fellowship, 1979-81

Meritorious SUNY Faculty Award, 1983

Dean's Research Semester Award, 1986

Visiting Scholar, Wolfson College, Cambridge, 1988-89

Royal Society of Chemistry (Fellow), 1992
New Zealand Institute of Chemistry, Royal Society Visiting Lectureship, 1995
Federal Universidade do Rio de Janeiro, Brazil, Visiting Research Lectureship, 1996
Hong Kong National Science Foundation, Visiting Lectureship, 2001
University Award for Excellence in Research, 2002
Doctor of Science (DSc), University of Newcastle-upon-Tyne, 2005
Chancellor's Award for Excellence in Teaching, 2014
Chancellor's Award for Excellence in Faculty Service, 2020

RESEARCH INTERESTS

Organometallic synthesis, spectroscopy, and photochemistry. Focus is on transition-metal complexes and their ligands, supramolecular species, cage compounds, excited states, photophysical properties, photochemical reactions, organometallic luminescence, ultrafast processes, photocatalysis, mechanisms of intermolecular bond activation, luminescent probe materials, visible-region photoinitiators, and anion sensors.

RESEARCH FUNDING

American Chemical Society, Petroleum Research Fund, #13581G3, "The Spectroscopy and Photochemistry of Group 6B Metal Carbonyl Complexes," February 1, 1982 - August 31, 1986, \$10,000.

Research Corporation, #9741, "The Excited State Properties of Substituted Group 6B Metal Carbonyls," June 1, 1982 - May 31, 1984, \$15,000.

University Awards Program, SUNY, Grants-in-Aid/Faculty Research Fellowship, "Photophysics of Group 6B Metal Carbonyl Complexes," June 1, 1982 - July 31, 1982, \$3,800.

American Chemical Society, #13581G3, Project SEED Student Supplement, July 1, 1982 - September 3, 1982, \$750.

University Awards Program, The Research Foundation of SUNY, Grants-in-Aid, "Photophysics of Group 5B Carbonyl Complexes," March 1, 1983 - February 28, 1985, \$3,800.

Research Foundation of SUNY, Faculty Summer Support Grant, "Excited-State Chemistry of Binuclear Metal Complexes," June 1, 1983 - June 30, 1983, \$1,500.

American Chemical Society, Petroleum Research Fund, #13581G3, Summer Undergraduate Student Supplement, June 6, 1983 - August 19, 1983, \$2,000.

IBM Corporation, #412, "Copper Equilibria Relevant to Electroless Plating," February 1, 1984 - July 31, 1984, \$9,000.

IBM Corporation, #389, "Chemical Characterization of Copper-Heterocycle Bonding," March 1, 1984 - April 30, 1985, \$51,716.

American Chemical Society, #13581G3, Project SEED Student Supplement, June 10, 1985 - August 16, 1985, \$750.

National Science Foundation, "Travel Grant to Attend 10th IUPAC Photochemistry Symposium," Interlaken, Switzerland, July 22 - 27, 1984, \$800.

IBM Corporation, #4034, "Chemical Characterization of Copper-Heterocycle Bonding," January 1, 1985 - December 31, 1987, \$258,580.

New York State/United University Professions, "Experienced Faculty Travel Award," to attend 12th International Conference on Organometallic Chemistry, Vienna, Austria, September 8 - 13, 1985, \$750.

NATO International Collaboration in Research (with Prof. D. J. Stufkens, University of Amsterdam, The Netherlands), Grant #0108/86, "Photochemistry and Photophysics of $XRe(CO)_3(\alpha\text{-Diimine})$ Complexes," April 1, 1986 - March 31, 1988, \$2,470.

Faculty Summer Research Support Grant (with Prof. Hastie), "Luminescence of Metal Ions in Biomolecules," May 27, 1986 - June 30, 1986, \$5,000.

American Chemical Society, Petroleum Research Fund, #17897AC3, "Photophysical Properties of Transition Metal Carbonyl Complexes," September 1, 1986 - August 31, 1988, \$35,000.

United Nations Fellowship Service, FEL 4-1, 1987 - 1989, \$31,550.

U.S. Department of Education, #2-2-01009, "Purchase of a High-Field Nuclear Magnetic Resonance Spectrometer," with O. R. Martin (P.I.), J. A. Dix, J. J. Eisch, P. J. Harrington, S. B. Hastie, and E. S. Stevens, for the purchase of a Bruker AM-360 NMR Spectrometer with additional matching funds from SUNY- Binghamton, 1987 - 1989, \$170,638.

American Chemical Society, Petroleum Research Fund, #17897AC3, Faculty Supplement, "Photophysical Properties of Transition Metal Carbonyl Complexes," 1988, \$4,000.

National Science Foundation, "Travel Grant to Attend 12th IUPAC Photochemistry Symposium," Bologna, Italy, July 17 - 22, 1988, \$800.

American Chemical Society, Petroleum Research Fund, 19907AC3C, "Photochemistry of C-H Bond Activation Processes," September 1, 1988 - August 31, 1993, \$40,000.

NATO International Collaboration in Research (with Prof. D. J. Stufkens, University of Amsterdam, The Netherlands), Grant #0108/86, "Photochemistry and Photophysics of $XRe(CO)_3(\alpha\text{-Diimine})$ Complexes," April 1, 1988 - March 31, 1992, \$2,729.

IBM Corporation, #8095, "Photoresist Characterization using Fluorescence and Phosphorescence Techniques," November 1, 1988 - October 31, 1989, \$25,000.

U.S. Department of Energy, Office of Basic Energy Sciences, Division of Chemical Sciences, DE-FG02-89ER14039, "Photochemistry of Intermolecular C-H Bond Activation Reactions," June 15, 1989 - September 14, 1994, \$270,560.

IBM Corporation, "Donation of two Fluorescence Spectrometers," 1990, \$45,000.

IBM Corporation, #0001, "Organometallic Compounds as Luminescent Probes and Photosensitizers in Photoresist," April 5, 1990 - March 31, 1991, \$25,000.

Azon Corporation, "Unrestricted Research Support," February 1, 1991, \$1,500.

IBM Corporation, #9117, "Organometallic Complexes as Spectroscopic Probes of Polymer Mobility and as Photoinitiators/Photosensitizers of Photoresist," May 9, 1991 - July 31, 1992, \$25,000.

IBM Corporation, "Graduate Fellowship for Thomas G. Kotch," August 24, 1991 - May 22, 1992, \$12,374.

National Science Foundation, #USE9152366, "Materials Chemistry Equipment for Undergraduate Education," with M. S. Whittingham (P.I.), for the purchase of an X-ray powder with matching funds from SUNY-Binghamton, 1991-92, \$18,196.

National Science Foundation, #RCD-9154974, "Young Scholars Research Program," 1992 - 94, \$102,044.

Royal Society, "Travel Grant to attend 10th International Symposium on the Photochemistry and Photophysics of Coordination Compounds," Sendai, Japan, July 25-30, 1993, £1,020.

U.S. Department of Energy, DE-FG02-89ER14039, "Photochemistry of Intermolecular C-H Bond Activation Reactions," September 15, 1994 - March 14, 1997, \$205,800.

New York State/United University Professions, "Continuing Faculty Development Award," to Present Six Research Lectures in New Zealand, January 30 - February 14, 1995, \$581.

National Science Foundation, "Acquisition of Time-Domain Electron Paramagnetic Resonance Instrumentation," with D. C. Doetschman (PI), J. J., W. E. Jones, and J. L. Musfeldt, for the purchase of a Bruker EPR Spectrometer with additional matching funds from SUNY-Binghamton, 1996, \$481,540.

New York State/United University Professions, "Individual Development Award," to perform research at York University in the United Kingdom, January 1 - June 30, 1997, \$500.

New York State/United University Professions, "Individual Development Award," to present invited lecture at the 217th ACS National meeting in Anaheim, CA, March 21-25, 1999, \$400.

U.S. Department of Energy, DE-FG02-89ER14039, "Photochemistry of Intermolecular C-H Bond Activation Reactions," March 15, 1997 - June 14, 2011, \$232,958.

General Electric Corporation, "Unrestricted Research Donations," September 1, 1999 - December 31, 2015, \$213,525.

Binghamton University, Smart Energy Transdisciplinary Areas of Excellence (TAE) Collaboration Grant, "Tuning Exciton Dynamics in Organic Nanowire-Based Solar Cells", with

Jeffery Mativetsky (Physics) and Joon Jang (Physics), December, 2013 – December 31, 2015, \$15,000.

US Component of EU Research Team Receiving 996,660 Euros for Postdoctoral Exchange, Travel and Scientific visits, December, 2010 – December, 2016, \$102,535.

US Aid (Washington, D.C.), Postdoctoral Visit of Dr. Abanoub Abdelmonaem, Salary and Laboratory Supplies, October, 2022 – February, 2023, \$29,400.

INVITED RESEARCH SEMINARS

- Adelphi University, USA, 2008
- Albany University (SUNY), USA, 1984, 2002, 2017
- Alcan International, Banbury, UK, 1990
- Alfred University, USA, 2002
- (Univ.) Amsterdam, the Netherlands, 1987, 1989, 1993, 2004, 2016
- (Univ.) Auckland, New Zealand, 1995
- Australian National University, Australia, 1995
- Bath University, UK, 2000
- Binghamton University (SUNY), USA, 1981, 1985, 1988, 1991, 1995
- Bloomsburg University, 2013
- Bristol University, UK, 1989
- Brock University, St. Catherines, Ontario, Canada, 2013
- Brooklyn Polytechnic University, USA, 1991
- (Univ.) Calgary, Canada, 1999
- Cambridge University, UK, 1989, 1997, 2024
- (Univ.) Canterbury, New Zealand, 1995
- City College of New York, USA, 2001
- City University of New York, Queen's, USA, 1988
- Colgate University, USA, 1982
- (Univ.) Connecticut, USA, 2015
- Czech. Academy of Sciences, Prague, Czech Republic, 1985
- Dickinson College, USA, 1988
- Dublin City University, Eire, 1993
- (Univ.) East Anglia, UK, 1989
- East Stroudsburg University, USA, 1985
- Eastman Kodak, USA, 2001
- Exeter University, UK, 1989
- Federal Universidade do Rio de Janeiro, Brazil, 1996, 2001
- General Electric, Corporate Research and Development, USA, 1998, 2000
- Geneseo University (SUNY), USA, 1988
- George Washington University, USA, 1981
- Gettysburg College, USA, 2006
- Hamilton College, USA, 1986
- Hofstra University, USA, 1994
- (Univ.) Hong Kong, 2001
- Hong Kong Baptist University, 2001
- Hong Kong University of Science and Technology, 2001
- Hull University, UK, 1989

- IBM, Endicott, USA, 1985, 1988, 1990
- Ithaca College, USA, 1984
- King's College, Wilkes-Barre, USA, 1989
- Leeds University, UK, 1997
- Leicester University, UK, 1989
- Lehigh University, USA, 1983
- LeMoyne College, USA, 2001
- Lycoming College, USA, 1999
- (Univ.) Manchester, UK, 2023
- Manhattan College, USA, 1990
- (Univ.) Maryland, Baltimore County, USA, 1981
- (Univ.) Massachusetts at Amherst, USA, 1982
- (Univ.) Newcastle-upon-Tyne, UK, 1978, 1988
- (Univ.) New South Wales, Australia, 1995
- Northeastern University, USA, 1987
- Nottingham University, UK, 1989, 1993
- Oneonta University (SUNY), USA, 1984
- Oxford University, UK, 1989
- Pace University, USA, 1987, 1990, 1995, 1998
- Pittsburgh University, USA, 1988
- Potsdam University (SUNY), USA, 1994
- Queen Mary and Westfield College, University of London, UK, 1997
- Queen's University, Kingston, Ontario, Canada, 1988
- (Univ.) Reading, UK, 1995
- Rensselaer Polytechnic Institute, USA, 1988
- (Univ.) Rochester, USA, 1990, 2000
- Skidmore College, 2014
- St. Bonaventure University, 2014
- St. Francis University, 2003
- St. John Fisher College, 1999
- St. Lawrence University, USA, 1994
- Siena College, USA, 1994
- Southampton University, UK, 1989
- (Univ.) Southern California, USA, 1980
- Stony Brook University (SUNY), USA, 1988
- Stuttgart University, West Germany, 1989
- SUNY College at Brockport, USA, 1996
- SUNY College at Cortland, USA, 2012
- SUNY College at Oneonta, USA, 1984
- Susquehanna University, USA, 1986
- Syracuse University, USA, 1990
- Trinity College, University of Dublin, Eire, 2000
- Union College, USA, 1981
- (Univ.) Utah, Salt Lake City, 2023
- Vassar College, USA, 2002
- Vrije University, Holland, 2004
- Victoria University, New Zealand, 1995
- (Univ.) Wales, Cardiff, UK, 1989
- Waikato University, New Zealand, 1995

- Wollongong University, Australia, 1995
- York University, Ontario, Canada, 1989
- (Univ.) York, UK, 1993, 1997, 2004, 2010

COURSES TAUGHT AT SUNY-BINGHAMTON (enrollment range)

- General Chemistry (240-450)
- Intermediate Inorganic Chemistry (45-80)
- Advanced Inorganic and Organometallic Chemistry (10-15)
- Physical Inorganic Chemistry (18-25)
- Molecular Photochemistry (20-43)
- Special Topics: Spectroscopic Methods in Chemistry (10-15)
- Special Topics: Inorganic Photochemistry (10-15)
- Special Topics: Group Theory (10-15)
- Inorganic Materials Laboratory (10-12)
- Senior Seminar (20-35)
- Graduate Seminar (10-12)Frontiers in Chemistry (20-35)

UNDERGRADUATE RESEARCH STUDENTS SUPERVISED

S. Chun (F81, S82, F82, S83), S. Hertzberg (S82), P. Iannone (S82), A Strumeyer (F82, S83), M. Kagan (F82, S83), E. Mattimore (F82), C. Aronson (S83, F83), J. Fobare (S83, F83), J. George (S83, F83, S84), Y. Salinas (S83), P. Terzano (S83, F83), J. Davila (S83, F83, S84), D. Palmer (Su83), R. Kolodziej (F83, S84, F84, S85), Y. Eller (Su83, F83), N. Gresalfi (Su83, F83, S84), D. Tortorice (Su83, F83, S84), L. Chan (F84, S85, Su85, F85, S86, Su86, F86), K. Lax (F84, S85), R. Muchnik (F84, S85), L. Brilliant (S85, F85, S86), K. Freidman (S85), L. Nadal (S85, F85), Y. Han (Su85, F85, S86), S. Cummings (Su85), C. Pratt (F85), A. Lee (F85, S86), A. Goldberg (S86), E. Getty (Su86), G. Janauer (F87), D. Price (F87), K. Lee (F88), M. Lisi (Su91, F91, S92), J. Potenziano (S92), M. Rosenberg (S92), J. Basner (F94, S95, F95), R. Panesar (F94, S95, F95, S96, F96, S97), C. Borja (S95, F95, S96, F96, S97), M. Tansky (F95, S96, F96, S97), J. Grant (F96), E. Robson (S98, F98), J. Anspach (F98, S99, Su99, F99, S00), Ka-Kiu Cheung (S99), D. Tran (F00, S01), P. Varaghese (S02), A. Kreiger (F03, S04), J.-Y. Choi (F03), H. Kazi (F03, S04), E.-S. Kim (F06, S07), J. Oh (F06, S07), M. Sourikova (F06, S07, F07), D. Tse (F06, S07, F07, S08, F08, S09), E. Yushvayev (F06, F07), C. Zander (F06, S07), A. Mehta (S07, F07, S08), D. Blatt (F07, S08), D. Colabello (F07, S08, F08, S09), A. Hoffman (F07, S08, F08, S09), C. Okoye (F08), Jin Mia (S09, F09), R. Carpenter (S10, F10, S11), V. Albanese (S10), J. Bauer (S10), K. Ip (S10), Welley Loc (S10), T. Russo (S10), A. Nacca (F11), A. Galeano (F12), E. Racow (F12), R. Yakal (S14, F14), K. Williams (S14), F. Ahmed (S14, F14, S15), J. Ortiz (F 14), D. Forman (S15, F15, S16, F16, F17), E. Gay (S15, F15, S16, F16), B. Michael (S15, F15), P. Schuessler (S15, F15, S16), S. Marshall (F15, S16), J. Ainsworth (S16, F16, S17, F17, S18), R. Fuller (S16), T. Nguyen (S16, F16, S17), R. Roffe (S17, F17, S18), S. Schaefer (S17, F17, S18, Su18), G. Kyro (F17, S18, F18, S19, F19, S20, F20, S21), R. Kiss (F17, S18, F18, S19), M. Mahoney (F17, S18, S19), J. Lopez (F17), R. Gutin (S18), E. He (S18), K. Agostini (S19, F19), A. Smaldone (F20, S21, F21, S22), A. Silhavy (S21, F21, S22, F22, S23, F23, S24), Jessica Li (F21, S22, F22, S23, F23, S24), Joshua Sable (S22, F22, S23), Lauren Moccio (F22, S23, F23), Ashwin Sriskanthan (F22, S23, F23, S24), Shea Hohle (F22, S23, F23, S24), Emily Shaw (F22, S23, F23, S24, F24, S25), Rachel Lichtenstein (S23, F23), Noemi Pedraza (S24), Flaminia Ciancio (F24, S25).

Honors Theses:

- Samuel Chun, 1983
- Richard M. Kolodziej, 1985
- Yung J. Han, 1986
- Diane Colabello, 2009
- Amanda E. Hoffman, 2009
- Douglas Tse, 2009
- Jasper Ainsworth, 2018
- Rebecca Kiss, 2019
- Gregory W. Kyro, 2021

MASTER'S STUDENTS SUPERVISED

- Mark J. Schadt, M.S., 1984
- Agus A. Purwoko, M.S., 1989

- Yi Han, M.A., 1992
- Frank Goroleski, M.S., 1993
- Stephen D. Tibensky, MAT, 1997
- Nicholas Treat, M.A., 2010
- Amenze Uzamere, M.A., 2018
- Dylan Bortz, M.A., 2023
- Adithyan Sam, M.A., 2025

DOCTORAL STUDENTS SUPERVISED

- David M. Manuta, Ph.D., 1986
- David E. Marx, Ph.D., 1988
- Marsha M. Glezen, Ph.D., 1989
- Macpherson M. Zulu, Ph.D., 1989
- Kathleen A. Rawlins, Ph.D., 1990
- Denis P. Drolet, Ph.D., 1991
- Zhikai Wang, Ph.D., 1992
- Thomas G. Kotch, Ph.D., 1992
- Agus A. Purwoko, Ph.D., 1994
- Nicholas Dunwoody, Ph.D., 2000
- Vladimir Jakubek, Ph.D., 2001
- Aleksandra Souza da Silva, Ph.D., 2001
- Shih-Sheng Sun, Ph.D., 2002
- Onduru Odongo, Ph.D., 2005
- Maurice O. Odago, Ph.D., 2010
- Alexander Haruk, Ph.D., 2020
- Lynn Schmitt, Ph.D., 2020
- Yiliang Luan, Ph.D., 2021
- Mallory Thomas, Ph.D., 2024
- Weihu Wu, Ph.D., expected, 2026

INTERNAL EXAMINER

M.A./M.S. Theses:

G. Kisacky (1984), M.J. Schadt (1984), N.M. Martiak (1984), B.A. Wilson (1984), A.A. Purwoko (1989), W. Hutabarat (1989), G. Rodriguez (1992), Y. Han (1992), P. Munson (1992), F. Goroleski (1993), B. L. Watts (1998), N. Treat (2010), J. Gendron (2010), Anqui Xu (2017), R. Miller (2020), C. Cooper (2021), R. Uba (2023), A. Sam (2025), C. Fatta (2025), K. Moseman (2025).

Ph.D. Dissertations:

A.A. Aradi (1982), P.A. Munger (1984), M.E. Rosenkrantz (1984), B. Kotowicz (1995), M.A. Lucarelli (1986), D.M. Manuta (1986), D. Mustafi (1986), K.R. Smith (1986), U. Das (1987), D.D. Coolbaugh (1987), K.S. Yoon (1988), D.E. Marx (1988), S.R. Sexsmith (1988), B. Shafii (1989), M.M. Glezen (1989), L.B. Ratcliff (1989), M. Zulu (1989), R.R. Andrea (1989), B.A.B. Ratcliff (1990), K.A. Rawlins (1990), J.H. Shah (1990), D.P. Drolet (1991), K.G. Kurz (1991), M. Singh (1992), T.G. Kotch (1992), Z. Wang (1992), E.A. Pyles (1992), M.A. Staretz (1992),

T. Wang (1992), X. Ma (1992), G.A. Murray (1992), R.E. Gibbons, Jr. (1992), A.A. Purwoko (1994), M. Lin (1996), M.E. Janik (1998), R. Chen (1999), N. Dunwoody (2000), Y. Li (2000), V. Jakúbek (2000), L. Hermans-Blackburn (2000), A. Sargent (2000), S.-S. Sun (2001), Z. Zhu (2001), F. Yan (2001), S.-W. Yang (2002), D. Sarno (2002), H. Xu (2003), P. Otieno (2003), C.B. Murphy (2003), Y. Zhang (2003), L. Fan (2006), C. Kowenje (2006), J. Martin (2007), P. Njoki (2007), J. Karasinski (2007), S. Lim (2008), S. Pinnock (2008), O. Dilek (2009), C. Malele (2009), M. Omole (2009), M. Odago (2010), M. Schadt (2010), D. Xu (2010), R. Loukrakpam (2012), M. Kamundi (2013), Megan Fegley (2013), Daniella McCarthy (2014), Jian Liu (2015), Jiaxin Xia (2016), Anting Chen (2017), Steven Boyer (2017), Haval Kareem (2018), Wei Wu (2018), Xiaohui Li (2020), L. Schmitt (2020), A. Haruk (2020), V. Wambua (2020), K. McCardle (2021), O. Osipitan (2022), M. Thomas (2024), V. Nyagillo (2024), L. Terry (2024).

EXTERNAL EXAMINER

Ph.D. Dissertations:

Ronald Andrea, University of Amsterdam, The Netherlands, 1989
Celia Gallagher, Dublin City University, Ireland, 1993
Siobhán O’Keaffe, Dublin City University, Ireland, 1997
Lawton Shaw, University of Calgary, Canada, 1999
Wing Tat Choi, City University of Hong Kong, Hong Kong, 2015
Suzanne McMahon, Dublin City University, Ireland, 2016
Summaiya Hanif, Aligarh Muslim University, India, 2017
Mukul Raizada, Aligarh Muslim University, India, 2017
Samrah Kamal, Aligarh Muslim University, India, 2024

DEPARTMENT SERVICE

- Cumulative Examinations Revision Committee, 1982
- Colloquia Program Chairman, 1982-84
- Committee for Nominating Distinguished Dissertation Award Recipient, 1983
- Undergraduate Curriculum and Affairs Committee, 1983-84
- Search Committees (Numerous Lecturers, Faculty and Staff positions), 1983-present
- Colloquia Program Committee, 1985, 2009-10
- Library Liaison, 1985-87, 1994-95
- University/Industry Interface Committee, 1986-90
- Graduate Curriculum Committee, 1986-90
- Director of Graduate Program, 1987-90
- Department Chair, 1990-92, 1995-2003, 2006-2009, 2012-13.
- Graduate Program Committee, 1994-95
- Space Committee, 2003-04, 2009-12, 2013-present
- Departmental Awards Committee, 2009-12
- Undergraduate Program Committee, 2009-2016
- Strategic Planning Committee, 2013-present
- Undergraduate Program Committee, Chair, 2013-16
- Grievance Committee, 2013-present
- Eisch Inorganic/Organometallic Lecture, organizer, 2016-present

UNIVERSITY SERVICE

- Faculty Mentor, SUNY Honors Scholar, 1982-86
- University Representative at Career Day, University of Scranton, 1984
- Educational Planning and Policies Committee, 1983-87
- Faculty Senate, 1984-87, 2010-18, 2019-22
- University *ad hoc* Committee Summer Faculty Proposals Review, 1984-85
- Search Committee, Sponsored Funds Administrator, 1984
- Reviewer, Faculty Summer Research Support Grants, 1985
- Search Committee, Head of Science Library, 1986
- SUNY Foundation Faculty/Staff Campaign, 1986-88, 1990-92, 1995-00, 2003-06
- Chair, Committee for Dean's Research Semester Award, 1987
- Search Committee, Vice Provost for Graduate Studies and Research, 1987
- Presidential Child Care Task Committee, 1987
- National Science Foundation Graduate Fellowship Adviser, 1987-92
- Transfer Student Recruitment Activities, 1987-88
- Graduate Council Curriculum Committee, 1987-88
- President's Research Administration Advisory Group, 1988
- Panel Member, "Writing Across the Curriculum at SUNY," 1989-90
- Chair, Interviewing Panel, Science Stores Clerk, 1995
- Distinguished Ph.D. Dissertation Committee, 1995
- Adjunct Faculty Committee, 1996
- Science Chairs' Representative, Interviewing Panel, Dean of Harpur College of Arts and Sciences, 1996
- Search Committee, Vice Provost for Research and Graduate Studies, 1998-99
- Search Committee, Dean of Harpur College of Arts and Sciences, 1999-00
- Harpur College Committee on Writing Requirements, 2000
- Graduate Council, 2001-03, 2015-17, 2020-present
- Advisory Committee on Scholarship and Research, 2001-03
- Strategic Planning Council, 2002-04
- Graduate Council Student Grievance Committee Chair, 2003-04
- Faculty Senate Executive Committee, 2010-18, 2019-22
- Faculty Senate Evaluation Coordinating Committee, 2010-12 (Chair, Fall 2010)
- Senior Personnel Committee for Librarian E. Brown's promotion, 2011
- Freshman Mentor, 2012-13
- Harpur College Steering Group, 2012-13
- Faculty Senate, Chair, 2013-15
- University Senior Officers Group, 2013-15
- Campus Group Leaders, 2013-15
- University Personnel Committee, Professional Schools and Library, 2013-14
- University Personnel Committee, Arts and Sciences, 2014-15, 2016-18
- Chair, University Personnel Committee, Arts and Sciences, 2014-15, 2017-18
- Middle States Review Committee, 2014-15
- Roadmap Steering Committee, 2014-15
- University Grand Marshall, 2013-15
- Search Committee, Dean of School of Pharmacy and Pharmaceutical Sciences, 2015
- Search Committee, Associate Dean for Academic Affairs and Assessment, School of Pharmacy and Pharmaceutical Sciences, 2015

- Search Committee, Chair of Health Outcomes and Administrative Services, School of Pharmacy and Pharmaceutical Sciences, 2015
- Search Committee, Chair of Pharmaceutical Sciences, School of Pharmacy and Pharmaceutical Sciences, 2015
- Search Committee, Assistant Professor, Department of Health Outcomes and Administrative Services, School of Pharmacy and Pharmaceutical Sciences, 2016
- Search Committee, Assistant Professor, Department of Pharmaceutical Sciences, School of Pharmacy and Pharmaceutical Sciences, 2016
- Graduate Council Curriculum Committee, 2015-17, 2020-21
- Co-Chair, Department of Biological Sciences, 2016-19

UNIVERSITY SERVICE (University of Central Lancashire)

- University Management Team, 1992-94
- University Executive Team, 1993-94
- Chair, Faculty of Science Management Team, 1992-94
- University Academic Board, 1992-94
- Enterprise Steering Group, 1992-94
- Enterprise Management Team, 1992-94
- Chair, Faculty of Science Enterprise Coordinating Group, 1992-94
- University Academic Programmes Board, 1992-94
- University Programmes Board, 1992-94
- University Research Committee, 1992-94
- Working Party on Revision of Credit Accumulation and Transfer Scheme, 1992-93
- Academic Information Management System Steering Group, 1993-94
- DTI Technology Audit Committee, 1993
- Chair, Faculty of Science Internal Review Group, 1992-94

COMMUNITY SERVICE

- Mentor, Interdisciplinary Science Program for High School Students at SUNY-Binghamton, 1983-88
- Presented Lectures and Chemical Demonstrations on Photochemistry to High School Students at Sullivan Community College, Loch Sheldrake, NY as part of the 11th Annual Science Symposium, 1984
- Speaker at Memorial Service for Prof. Lawrence P. Verbit, 1984
- Chairman of Student Awards Committee for the American Chemical Society, Binghamton Section, 1984-86
- Laboratory Demonstrations for Parents' Day, 1985-88
- Presented Public Service Courses in Photochemistry, Spectroscopy and Related Analytical Methods, 1982, 1983, 1985 and 1986
- Event Judge for High School Science Olympiad, 1990 and 1991

MISCELLANEOUS PROFESSIONAL SERVICE

- Reviewer for the following granting agencies: American Chemical Society, Petroleum Research Fund, U.S. Department of Energy, Croatia Science Foundation, EOLAS

(Ireland), FRD (South Africa), Israel Science Foundation, Louisiana Board of Regents, NSERC (Canada), National Science Foundation, and the Research Corporation.

- Reviewer for the following Professional Journals: *Analytical Chemistry*, *Applied Spectroscopy*, *Chemical Physics Letters*, *Chemistry European Journal*, *Chemistry of Materials*, *Inorganic Chemistry*, *Inorganic Communications*, *Inorganica Chimica Acta*, *Journal American Chemical Society*, *Journal of Material Science*, *Journal of Molecular Structure*, *Journal of Organometallic Chemistry*, *Journal of Physical Chemistry*, *Langmuir*, *New Journal of Chemistry*, *Organic Letters*, *Organometallics*, *Polymer and Polymer Composites*, *Royal Society of Chemistry Chemical Communications*, *Royal Society of Chemistry Dalton Transactions*, *Science*, *Synthetic and Reactive Inorganic Metals-Organic Chemistry*, *Tetrahedron*, *Tetrahedron Letters*, *Toxicology and Environmental Chemistry*.
- Reviewer for American Chemical Society Books
- Reviewer for Cambridge University Press
- Peer Reviewer, SUNY-College at Cortland Grant Proposals, 1984-86, 2000
- Associate Editor, *Molecules*, 2020-present
- Numerous Tenure/Promotion Cases at US and International Universities, 2010-present
- American Chemical Society, Alternative Councilor, 1983-87, Councilor, 1987-92
- Chairman, "Inorganic/Organic Photochemistry Symposium," ACS-NERM 13, 1983
- Chairman, Section on "Inorganic Photochemistry," Royal Society of Chemistry Annual Chemical Congress in Swansea, U.K., 1987
- Invited Member Scientific Panel, CHEMRAWN IV (Chemical Research Applied to World Needs), "Modern Chemistry and Chemical Technology Applied to the Ocean and its Resources," Keystone, Colorado, 1987
- External Examiner, Chemistry Undergraduate Degree Programs, Dublin City University, Eire, 1994-96

PERSONAL INTERESTS

Fly-fishing, Soccer (including being a qualified FIFA referee), Cycling and Hiking.

PUBLICATIONS

1. "A Study of Intermolecular Hydrogen Bonding in Formamide by Vibrational Spectroscopy," Derek J. Gardiner, Alistair J. Lees and Brian P. Straughan, *J. Mol. Struct.* **1979**, 53, 15-24.
2. "An NMR and IR Study of Ion-Formamide Interactions," Alistair J. Lees, Brian P. Straughan and Derek J. Gardiner, *J. Mol. Struct.* **1979**, 54, 37-47.
3. "Quenching of Emission and of Photochemistry of Pentacarbonyl (4-cyanopyridino)-tungsten(0)," Alistair J. Lees and Arthur W. Adamson, *J. Am. Chem. Soc.* **1980**, 102, 6874-6876.

4. "Electrolyte-Formamide Interactions Studied by Raman Spectroscopy," Alistair J. Lees, Brian P. Straughan and Derek J. Gardiner, *J. Mol. Struct.* **1981**, *71*, 61-70.
5. "Reaction Kinetics of the Intermediate Produced in the Laser Pulse Photolysis of Tungsten Hexacarbonyl in Fluid Solution," Alistair J. Lees and Arthur W. Adamson, *Inorg. Chem.* **1981**, *20*, 4381-4384.
6. "Photophysics and Photochemistry of Pentacarbonyl(pyridine)tungsten(0) Complexes which Luminesce in Fluid Solution," Alistair J. Lees and Arthur W. Adamson, *J. Am. Chem. Soc.* **1982**, *104*, 3804-3812.
7. "Luminescence of a Series of Pentacarbonylpyridinomolybdenum(O) Complexes in Fluid Solution," Alistair J. Lees, *J. Am. Chem. Soc.* **1982**, *104*, 2038-2039.
8. "Emission of Tetracarbonylbis(pyridino)-Tungsten(0) and Related Complexes in Room Temperature Solution," Samuel Chun and Alistair J. Lees, *Inorg. Chim. Acta* **1982**, *65*, L167-L169.
9. "Photophysics of Metal Carbonyl Complexes. Multiple Emissions from Diimine-Tetracarbonyl Complexes of Group 6B Metal in Room-Temperature Solution," David M. Manuta and Alistair J. Lees, *Inorg. Chem.* **1983**, *22*, 572-573.
10. "Emission and Photochemistry of the Lowest Energy Excited States of Binuclear Group 6B Metal Carbonyl Complexes," Samuel Chun, David C. Palmer, Eileen F. Mattimore and Alistair J. Lees, *Inorg. Chim. Acta* **1983**, *77*, L119-L121.
11. "Solvent and Substituent Effects on the Lowest Energy Excited States of $M(CO)_4$ (diimine) ($M = Cr, Mo, W$) Complexes," David M. Manuta and Alistair J. Lees, *Inorg. Chem.* **1983**, *22*, 3825- 3828.
12. "Photolysis of Tungsten Hexacarbonyl with Bidentate Ligands. Characterization and Reaction Kinetics of a $W(CO)_5L$ Intermediate by Diode-Array Electronic Absorption Spectroscopy," Mark J. Schadt, Nancy J. Gresalfi and Alistair J. Lees, *J. Chem. Soc., Chem. Commun.* **1984**, 506-508.
13. "Photophysics of Metal Carbonyl Complexes. Excited States of a Series of *cis*- $M(CO)_4L_2$ Complexes ($M = Cr, Mo, or W$; $L = Pyridine$ or a Pyridine Derivative)," Samuel Chun, Edward E. Getty and Alistair J. Lees, *Inorg. Chem.* **1984**, *23*, 2155-2160.
14. "Excited State Properties of Binuclear Group 6B Metal Carbonyl Complexes. Emission and Photochemistry in Fluid Solution," Alistair J. Lees, Joanne M. Fobare and Eileen F. Mattimore, *Inorg. Chem.* **1984**, *23*, 2709-2713.
15. "Characterization and Reaction Kinetics of Intermediates Produced in the Photolysis of $M(CO)_6$ ($M = Cr, Mo, W$) Solutions Containing a 1,4-Diazabutadiene Ligand," Mark J. Schadt, Nancy J. Gresalfi, and Alistair J. Lees, *Inorg. Chem.* **1985**, *24*, 2942-2946.

16. "Photolysis of Group 6 Metal Hexacarbonyl Solutions Containing Diimine Ligands. Spectral Characterization and Reaction Kinetics of a Photoproduced Intermediate, Monodentate $M(\text{CO})_5$ -(diimine)," Mark J. Schadt and Alistair J. Lees, *Inorg. Chem.* **1986**, *25*, 672-677.
17. "Photophysics and Photochemistry of a Series of $M(\text{CO})_5\text{L}$ Complexes Where $M = \text{Cr}$ or Mo and $\text{L} = \text{Pyridine}$ or a Substituted Pyridine)," Richard M. Kolodziej and Alistair J. Lees, *Organometallics* **1986**, *5*, 450-455.
18. "Kinetics and Mechanism of a Photogenerated $\text{W}(\text{CO})_5\text{L}$ Intermediate, Where $\text{L} = 2$ -Pyridinal-imine Ligand," Lisa Chan and Alistair J. Lees, *Inorg. Chim. Acta* **1986**, *113*, L3-L6.
19. "Emission and Photochemistry of $M(\text{CO})_4$ (diimine) ($M = \text{Cr}, \text{Mo}, \text{W}$) Complexes in Room-Temperature Solution," David M. Manuta and Alistair J. Lees, *Inorg. Chem.* **1986**, *25*, 1354-1359.
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21. "Photochemistry of $M(\text{CO})_6$ ($M = \text{Cr}, \text{Mo}, \text{W}$) Solutions Containing Dipyridylalkane Ligands. First Examples of Stable Monodentate $M(\text{CO})_5$ (dipyridylalkane) Complexes," David E. Marx and Alistair J. Lees, *Organometallics* **1986**, *5*, 2072-2074.
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24. "Kinetics and Reactivity of $M(\text{CO})_5\text{L}$ Intermediates Produced by the Photolysis of Group 6 Metal Hexacarbonyl Solutions Containing Diimine Ligands," David E. Marx and Alistair J. Lees, *Inorg. Chem.* **1987**, *26*, 620-622.
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27. "Molecular Association in Flexible Diolefinic Dyes," El-Zeiny M. Ebeid and Alistair J. Lees, *J. Phys. Chem.* **1987**, *91*, 5792-5795.

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33. "Photophysical, Photochemical, and Redox Behavior of a Series of Ligand-Bridged $(\text{OC})_5\text{M-L-M}'(\text{CO})_5$ (M, M' = Cr, Mo, W) Complexes," Mthembeni M. Zulu and Alistair J. Lees, *Inorg. Chem.* **1988**, 27, 1139-1145.
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38. "Solvent Effects on the Lowest Energy Excited States of Binuclear $(\text{OC})_5\text{W-L-W}(\text{CO})_5$ Complexes," Mthembeni M. Zulu and Alistair J. Lees, *Inorg. Chem.* **1988**, 27, 3325-3331.

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44. "Synthesis, Optical, Photophysical and Redox Properties of a Ligand-Bridged Heteronuclear $(OC)_5W(pyzo)Re(CO)_4Cl$ ($pyzo = pyrazine$) Complex," Mthembeni M. Zulu and Alistair J. Lees, *Organometallics* **1989**, 8, 955-960
45. "Photoproduced Linkage Isomers of Pentacarbonyl(4-cyanopyridine)tungsten(O)," Zhikai Wang and Alistair J. Lees, *J. Organomet. Chem.* **1989**, 363, 335-341.
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51. "Electronic Energy Transfer from Zero-Valent Binuclear Tungsten Carbonyl Complexes to Organic Triplet States," Mthembeni M. Zulu and Alistair J. Lees, *Inorg. Chem.* **1990**, 29, 557- 560.

52. "Photochemistry of $(\eta^5\text{-C}_5\text{H}_5)\text{Rh}(\text{CO})_2$ in Phosphine Solutions: Evidence for an Associative Photosubstitution Mechanism," Denis P. Drolet and Alistair J. Lees, *J. Am. Chem. Soc.* **1990**, *112*, 5878-5879.
53. "Photophysical Studies of $\text{W}(\text{CO})_5\text{L}$ Complexes. Multiple-State Luminescence of $\text{W}(\text{CO})_5(4\text{-cyanopyridine})$ in Fluid and Glassy Solutions," Kathleen A. Rawlins, Alistair J. Lees, and Arthur W. Adamson, *Inorg. Chem.* **1990**, *29*, 3866-3871.
54. "[$(\text{Ph}_3\text{P})_2\text{N}$] $_2[\text{Os}_{18}\text{Hg}_2\text{C}_2(\text{CO})_{42}]$ a Photochemically Generated High-Nuclearity Cluster which Reversibly Incorporates Metallic Mercury into its Metal Core," Eleni Charalambous, Lutz H. Gade, Brian F. G. Johnson, Thomas Kotch, Alistair J. Lees, Jack Lewis and Mary McPartlin, *Angew. Chem.* **1990**, *102*, 1172-1174; *Angew. Chem., Int. Ed. Engl.* **1990**, *29*, 1137-1139.
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66. "Multiple-State Emission and Excited-State Dynamics of CpRe(CO)₂L (L = 3-Benzoylpyridine and 4-Benzoylpyridine) Complexes in Fluid and Glassy Solutions," Zhikai Wang and Alistair J. Lees, *Inorg. Chem.* **1993**, 32, 1493-1501.
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"Selective Optical Aqueous and Nonaqueous Detection of Free Sulfites"

Lynn Schmitt and Alistair J. Lees

US Patent, 11,953,479 B2, awarded April, 2024.

Australian Patent, 2018345841A1, awarded, March 2020.

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