Curriculum Vitae
Anthony J. Pearson

Academic Rank: Rudolph & Susan Rense Professor of Chemistry

Birthplace: Kingswinford, England.

Citizenship: British; U.S. Naturalized Citizen.

Education:
University of Leeds, England, B.Sc. Hons. Class 1, 1971, Chemistry.
Aston University, England, Ph.D., 1974, Organic Chemistry.

Awards & Honors:
Akroyd Scholarship (1969), Whytlaw-Gray Prize for Chemistry (1971), and Dawson Prize for Physical Chemistry (1971), University of Leeds.
Sir Gilbert Morgan Medal (1973), Society for Chemical Industry, U.K.
Science and Engineering Research Council (U.K.) Advanced Fellowship (1977-82).
Sigma Xi Research Award (1984), Case Western Reserve University.
John S. Diekhoff Award for Distinguished Graduate Teaching (1994), Case Western Reserve University.
Visiting Scientist, Chemistry Research Promotion Center, Taipei, Taiwan, R.O.C., May 1990.
Visiting Professor, University of Auckland, New Zealand, July/August, 1995.
Chairman-Elect, American Chemical Society, Cleveland Section, 1999. Chairman, 2000.
Finalist (one of three) for Northern Ohio Live 2001 Award of Achievement in Architecture, with R. Bostwick, N. Distad, K. Kutina, and N. Rushforth, for design of Agnar Pytte Science Center at CWRU.
Case Alumni Association, Recognition of Meritorious Service, 2003.

Experience:

1963-66	Chemist. Industrial research and analytical laboratories. Albright & Wilson; British Steel; West Midlands Gas Board. Semi-professional musician.
1966-68	Professional musician.
1974-77	Postdoctoral Research Fellow, with Arthur J. Birch. Research School of Chemistry, Australian National University, Canberra, Australia.
1977-82	SERC Advanced Fellow. Cambridge University Chemical Laboratory.
1978-81	Pauline Merz Official Fellow and Lecturer in Chemistry. Girton College, Cambridge.
1979-81	Tutor. Girton College, Cambridge.
1982-84	Associate Professor of Chemistry. Case Western Reserve University.
1984-	Professor of Chemistry. Case Western Reserve University.
1986-88	Acting Chairman. Department of Chemistry, Case Western Reserve University.
1989-	Rudolph and Susan Rense Professor of Chemistry. Case Western Reserve

University.
1995-2001 Chairman, Department of Chemistry, Case Western Reserve University.

Professional Societies:

American Chemical Society.

Other Professional Activities and Service

National Science Foundation Panel Review member, October 2008.
Member of the American Chemical Society Petroleum Research Fund Advisory Board, Oct 2002 – Oct 2008.

Councilor, American Chemical Society, Cleveland Section, 2005 – 2007. Alternate Councilor, American Chemical Society, Cleveland Section, 2002 - 2005. Awards Committee Chair, American Chemical Society, Cleveland Section, 2002.
Nominations Committee Chair, American Chemical Society, Cleveland Section, 2001.
Chairman, American Chemical Society, Cleveland Section, 2000 (Past Chairman, 2001).
Chairman-Elect, American Chemical Society, Cleveland Section, 1999.

Co-Editor (with W. R. Roush), *Handbook of Reagents for Organic Synthesis*, (L.A. Paquette, Editor-in-Chief), Wiley, 1999.

Member of Special Programs Review Panel, National Science Foundation, August 1997.

Chairman, Special Emphasis Review Group, Metallobiochemistry Study Section, National Institutes of Health, July 1997.

Acting Secretary, American Chemical Society, Cleveland Section, 1994 and 1996.

Section Editor, *Encyclopedia of Reagents for Organic Synthesis*, (L.A. Paquette, Editor-in-Chief), Wiley, 1995.

Guest Editor, *Tetrahedron* Symposium-in-Print, 1993.

Member of the Editorial Advisory Board, *Organometallics*, Jan. 1993 - Dec. 1995.

Member of the *National Institutes of Health Medicinal Chemistry A Study Section*, July 1991 - June 1995.

National Institutes of Health Medicinal Chemistry IRG: *Ad hoc* reviewer, 10/1984, 10/1987, 10/1989, 10/1996, 07/2000. National Institutes of Health Metallobiochemistry IRG: *Ad hoc* reviewer, 12/1989. National Institutes of Health Bioorganic &Natural Products Special IRG: *Ad hoc* reviewer, 09/97, 06/2000, 06/2006.

Program Chair, Meeting-in-Miniature, American Chemical Society, Cleveland Section, 1993-98.

Member of the Morley Award Jury, American Chemical Society, Cleveland Section, 1990-1994. Chair of committee, 1994-95.

Journal Referee: J. Am. Chem. Soc.; J. Org. Chem.; Organometallics; J. Organomet. Chem.; Tetrahedron Letters; J. Chem. Soc.; Austral. J. Chem.; Synlett; Tetrahedron

Proposal Reviewer: National Science Foundation, Chemistry Division; Petroleum Research Fund; NSERC (Canada); Research Corporation; National Institutes of Health, General Medical Sciences.

Symposium Organizer, American Chemical Society Central Regional Meeting, Akron, Ohio June 5-7, 1985.

External Examiner for B.S. honors chemistry students, Kenyon College, Ohio, May, 1985.

Symposium Chairman, American Chemical Society Central Regional Meeting, Bowling Green, Ohio, June 2-4, 1986.

Symposium Chairman, American Chemical Society Central Regional Meeting, Ohio State University, June 1987.

Symposium Chairman, American Chemical Society 21st Central Regional Meeting, John Carroll University, Cleveland, Ohio, June 1989.

Supervision of Graduate Students (G) and Postdoctoral Research Associates (P) [Present employer]:

Peter Ham (G)	Ph.D. Cambridge University (1982)	[Beecham PLC, U.K.]
Chi Wi Ong (G)	Ph.D. Cambridge University (1982)	[Professor, N. Sun Yat Sen, Taiwan]
Davis C. Rees (G)	Ph.D. Cambridge University (1982)	[Astra Zeneca, Sweden]
Malcolm Chandler (P, Cambridge)		[Glaxo, U.K.]
Geoffrey Haywood (P, Cambridge)		[Lecturer, Univ. London]
Trevor R. Perrior (G)	Ph.D. Cambridge University (1983)	[Zeneca Agrochemicals, U.K.]
Ian C. Richards (G)	Ph.D. Cambridge University (1983)	[Schering AG, U.K.]
Tapan Ray (P, CWRU)		[Sandoz, U.S.A.]
Shi-Ying Hsu (P, CWRU)		[Mobil R&D, NJ]
Gi Rin Han (G)	Ph.D. CWRU (1985)	Married/domestic duties
Sandra L. Kole (G)	Ph.D. CWRU (1985)	[Proctor & Gamble]
Yong-Shing Chen (G)	Ph.D. CWRU (1986)	[Peninsula Labs., Inc.]
Md. N. I. Khan (G)	Ph.D. CWRU (1986)	
Harjinder S. Bansal (P, CWRU)		[Zeneca Agrochemicals, U.K.]

Richard J. Kennedy (P, CWRU)		
Michael Holden (P, CWRU)		[Dickinson College, PA, Professor; Dept. Chair]
Sheri L. Blystone (G)	Ph.D. CWRU (1987)	
Jaeyon Yoon (G)	Ph.D. CWRU (1987)	[Yukong Ltd., USA]
Paul R. Bruhn (G)	Ph.D. CWRU (1990)	[Principal, Lutheran High School]
Vikram Khetani (G)	Ph.D. CWRU (1988)	[Celgene Corp]
Mark Zettler (G)	Ph.D. CWRU (1988)	[Dow-Elanco]
Yen-Shi Lai (G)	Ph.D. CWRU (1989)	[Sphinx Corp]
Michael O'Brien (G)	Ph.D. CWRU (1989)	[Wyerth Ayerst]
Brian Roden (G)	Ph.D. CWRU (1989)	[Abbott Labs.]
Marco Burello (G)	Ph.D. CWRU (1991)	[Ricerca, Inc]
Fred. Gouzoules (P,CWRU)		[Ciga Geigy Agrochemicals]
Seung Han Lee (P,CWRU, 1987-89)		[Korea, faculty position]
Yu Hwey Chuang (P, CWRU, 1987-88)		
Andrew White (P, CWRU)		[Parke Davis, MI]
Matthew Perry (P, CWRU)		[Fisons PLC, U.K.]
Jewn-Giew Park (G)	Ph.D. CWRU (1991)	[KIST]
Sanku Mallik (G)	Ph.D. CWRU (1991)	[N. Dakota State, Asst. Prof.]
Andrew Russell (P, CWRU)		[Salford U., U.K., Lecturer]
Sajan Joseph (P, CWRU)		[Eli Lilley]
Reza Mortezaie (P, CWRU)		[Affymax]
Shun Hua Yang (P, CWRU)		
Kumar Srinivasan (G)	Ph.D. CWRU (1992)	[Sybia, CA]
Xinqin Fang (G)	Ph.D. CWRU (1994)	[NitroMed, Mass.]
Kieyoung Chang (G)	Ph.D. CWRU (1993)	[Korea, Industry]
Hunwoo Shin (G)	Ph.D. CWRU (1993)	[Korea, Industry]
Kieseung Lee (G)	Ph.D. CWRU (1995)	[Korea, Asst Prof]
Ping Zhu, (G)	Ph.D. CWRU (1995)	[Lubrizol Corp.]
Alvise Perosa (G)	Ph.D. CWRU (1996)	[U. Venice]
Srinivasan Balasubramanian (G)	MS CWRU (1993)	[U. Mass., Grad Student]
Ann M. Gelormini (G)	Ph.D. CWRU (1996)	[R. W. Johnson]
Zhengyu Liu (G)	M.S. CWRU (1993)	[Sybia, CA]
Robert Dubbert (G)	Ph.D. CWRU (1993)	[BP America]
Manoj Babu (G)	Ph.D. CWRU (1998)	[Catalytica]
Raymond J. Shively, Jr. (G)	Ph.D. CWRU (1993)	[Wilson College, PA, Asst Prof]
Kassahun W. Beyene (P)	CWRU (1992-93)	
Alexandre Gontcharov(G)	Ph.D. CWRU (1997)	[Coelacanth]
Asaf Alimardanov (G)	Ph.D. CWRU (1998)	[DSM Pharmaceuticals]
Lei Sun (G)	M.S. CWRU (1996)	[Motorola Biochip]
Penglie Zhang (G)	Ph.D. CWRU (1997)	[Cor Therapeutics]
Mariappan V. Chelliah (G)	Ph.D. CWRU (1998)	[Schering-Plough]
Richard Vickerman (G)	Ph.D. CWRU (1999)	[Lubrizol]
Irina Neagu (G)	Ph.D. CWRU (1999)	[Pharmacopeia, Inc.]
Xin Yao (G)	M.S. CWRU (1996)	

Gilles Bignan (P, CWRU)		[R. W. Johnson]
Seema Katiyar (G)	Ph.D. CWRU (2000)	[Albany Molecular Research]
Prakash Krishnan (G, deceased, Jan. 1999)		
Elke Schoffers (P, CWRU)	CWRU (1996-98)	[Western Michigan U., Asst Prof]
Anne Douglas (G)	Ph.D. CWRU (2000)	
Jiunn-Jye Hwang (G)	Ph.D. CWRU (2001)	[Rice University, Postdoc]
Sarunas Zigmantus (G)	Ph.D. CWRU (2001)	[Switzerland, PD]
Philippe Belmont (P)	CWRU (1997-1999)	[U. Claude Bernard, France]
Jung-Nyoung Heo (G)	Ph.D. CWRU (2001)	[U. Michigan, PD]
Ismet Bennouna-Dorange (G)	Ph.D. CWRU (2001)	[Stockholm U., Sweden, PD]
James Dudones (P)	CWRU (1999-2001)	[Ricerca]
Jinbum Kim (G)	Ph.D. CWRU (2003)	[Japan, PD/Noyori]
Eugen Mesaros (G)	Ph.D. CWRU (2002)	[U. Pennsylvania, PD]
Wenjing Xiao (G)	Ph.D. CWRU (2003)	[PPG Industries]
Sheng Cui (G)	Ph.D. CWRU (2003)	[Amgen]
Harinandini Paramahamsan (G)	Ph. D. CWRU (2005)	
Avdhoot Velankar (G)	Ph. D. CWRU (2005)	[Nycomed Pharma, India]
Victor Ghidu (G)	Ph.D.CWRU (2004)	[PD with Gary Sulikowski, Vanderbilt]]
Xiaolong Wang (G)	Ph.D.CWRU (2004)	[Nanjing University, China]
Brian Servé (G)	Ph. D. CWRU (2006)	[Law School]
Yoonhyun Kwak (G)	Ph. D. CWRU (2005)	[Samsung, Korea]
Diana Ciurea (G)	Ph. D. CWRU (2007)	[PD, Anderson Cancer Center]
Ming Zhang (G)	Ph. D. CWRU (2006)	[Anichem LLC, NJ]
Shubhamita Basu (G)	Ph.D. CWRU (2007)	[Lubrizol]
Penny Niesen (G)	MS CWRU (2010)	[PPG Industries]
Huikai Sun (G)	Ph. D. CWRU (2007)	[Envoy Therapeutics, Florida]
Yan Zhou (G)	Ph. D. CWRU (2009)	
Eun Hoo Kim (G)	Ph.D. CWRU (2010)	[PD, Purdue, Stephen Colby]
Maria Deslandes (G)	CWRU current	
Vasily Mikhaylov (G)	MS CWRU (2011)	
Santanu Panda (G)	CWRU current	
Sheng Zhang (G)	CWRU current	

Summary of Teaching and Service Contributions:

Courses taught at Cambridge University: Part II Course on Organometallic Chemistry (for 4 years). Chemistry Inorganic Laboratory IB Advanced (4 years).

Courses taught at Case Western Reserve University:

CHEM 435: Synthetic Methods in Organic Chemistry, Fall semester 1982, 1983, 1988 (Graduate course).

CHEM 503: Special Topics: Metallo-organic Chemistry, Spring semester, 1983, 1991 (Graduate course).

CHEM 223: Introductory Organic Chemistry I, Summer semester 1990, Fall semester, 2000,

2001, 2002, 2003, 2004, 2006, 2007, 2008, 2009, 2010 (Undergraduate).
CHEM 224: Introductory Organic Chemistry II, Spring semester, 1984, 1985, 1986, 1992, 1995, 2002, 2003, 2004, 2007, 2008, 2009, 2010, 2011; Summer semester 1990 (Undergraduate).
CHEM 323: Organic Chemistry I, Fall 1993, Fall 2005. (U/grad. hons. course)
CHEM 324: Organic Chemistry II, Spring semester 1985, 1990, 1994, 2006 (U/grad. hons.)
CHEM 421: Advanced Organic Chemistry I, Fall semester 1984, 1985, 1990, 1991, 1992 First year graduate course.
CHEM 422: Advanced Organic Chemistry II, Spring Semester, 1993, 1996, 1997. Graduate level course.

Service Contributions:

At Cambridge University:
Member of Girton College Council, Cambridge University, 1979-81
Member of Girton College Governing Body, Cambridge University, 1978-81
Member of Girton College (Cambridge) Research Fellowships Evaluation Committee.

At Case Western Reserve University:
Member of Chemistry Department Executive Committee, 1983-2004; 2009-2010.
Member of Graduate Affairs Committee, Chemistry Department, 1983-87.
Chairman of Organic Chemistry Faculty Search Committee, 1984, 1986.
Chairman of Graduate Affairs Committee, 1985-86
Member of Strategic Planning Committee, Case Institute of Technology. 1985-87
Member of Chemistry Department group set up to examine Freshman Chemistry Offerings, 1985.
Member of CWRU President's Advisory Committee for tenure and promotions of Medical School Faculty, 1986, 1991 and 1993.
Acting Chairman, Chemistry Department, 1986-1988
Member of President's Search Committee for the Dean of the Colleges, 1987
Initiated a program of Visiting Professors for Chemistry Department, CWRU, with financial support from Dr. Glenn Brown
Member of CWRU Carcinogen Safety Committee, 1988
Member of CWRU Faculty Senate Library Committee, 1988-90.
Member of CWRU Scholarship Essays Committee, 1988
Member of CWRU Tenure and Promotion Committee for the Faculty of Mathematics and Natural Sciences, 1988-91. Chairman 1990-91.
Chairman of Michelson-Morley Award Selection Committee, Case Institue of Technology, 1988/89.
Member of Mabery Chair Selection Committee, 1988.
Member of Chemistry Advisory Council for Marietta College, Ohio, 1988-90.
Member of President's Advisory Committee for Tenure and Promotion in the Faculty of Engineering, Spring semester 1990.
Member of CWRU Mathematics and Natural Sciences Executive Committee, 1990-1993
Member of CWRU Faculty Senate Committee on Personnel, 1990-93.

Member of CWRU Chemistry Department Graduate Student Recruiting Committee, 1990-1993
Site Director for NSF REU Site, Chemistry Department, CWRU, June 1987-1990
Chairman of CWRU Mathematics and Natural Sciences Executive Committee, 1991-92.
Member of the Executive Committee of the General Faculty, 1991 - 1993.
Member of the Chemistry Department Space Committee, 1992.
Chairman of Chemistry Department Task Force on Industry Relations 1993.
Member of CWRU NCA Self-Study Committee on Research, 1993-94.
Member of CWRU Honorary Degrees Committee, 1994/95
Member of Faculty Senate Committee on Graduate Studies, 1994-97.
Chairman, Michelson-Morley Award Selection/Nomination Committee, 1998-99; member, 2000-2002.
Chairman, Chemistry Department, CWRU 1995-2001.
Member, Undergraduate Committee, Chemistry Department, CWRU, 2002-2007; Chairman, 2005-2006 academic year.
Member of College of Arts & Sciences Appointments Committee, 2003/2004.
Member of College of Arts & Sciences Committee on Educational Programs, 2005-2008.
Member, Faculty Search Committee, Chemistry Department, 2005/2006.
Member, Graduate Affairs Committee, Chemistry Department, 2008 -
Member, Resources Committee, Chemistry Department, 2008 –
Member, Faculty Search Committee, Chemistry Department, 2009/2010
Member, College of Arts & Sciences Executive Committee, March – June 2011.
Chair, Chemistry Department Safety Committee, 2011-

History of Major Fundraising:

Science and Engineering Research Council (U.K.), Funding of four graduate students and two postdoctoral research associates at Cambridge University during period 1978-1982. Grants obtained through SERC CASE System in collaboration with I.C.I. Pharmaceuticals, I.C.I. Plant Protection Division and Beecham Pharmaceuticals, PLC.
Cancer Research Campaign (U.K.), Funding of one graduate student at Cambridge University 1979-1982.

National Institutes of Health, GM-30373 "Steroid, C-nor-D-homosteroid, and Aphidicolin Syntheses." A. J. Pearson, principal investigator 10% of effort. Average annual direct costs: $60,000, 8/01/82 - 7/31/85.

National Institutes of Health, GM-30757, "Anticancer Trichothecenes." A. J. Pearson, principal investigator, 20% of effort. Average annual direct costs: $70,000, 04/01/83 - 06/30/89.

National Institutes of Health, GM-32114, "Approaches to Macrolide and Ionophore Antibiotics." A. J. Pearson, principal investigator, l0% of effort. Average annual direct costs: $95,000, 04/0l/84 - 03/31/90.

American Chemical Society, Petroleum Research Fund, PRF #l6l69-ACl. "Chemistry and Synthetic Applications of Diene-Molybdenum Complexes." A. J. Pearson, principal investigator. $17,500 p.a. for period 09/01/84 - 08/31/86.

National Institutes of Health, GM 34159, "Natural Products Synthesis via Organomolybdenum Chemistry." A. J. Pearson, principal investigator, 10% of effort. Annual direct costs of $66,500 for period 01/01/85 - 12/31/87. Use of diene-$Mo(CO)_2Cp$ cations as intermediates for stereocontrolled synthesis of natural products.

National Institutes of Health, GM 36925 "Organomanganese Complexes in Organic Synthesis" A. J. Pearson, principal investigator, 10% of effort. Annual direct costs of $67,469 for period 07/01/86 - 06/30/89.

National Institutes of Health, S20RR03574, "Gas Chromatograph Mass Spectrometer" A. J. Pearson, principal investigator. Multiple user grant funded at $212,000 for purchase of Kratos MS 25A GC/MS.

National Science Foundation, CHE-8704812 "X-ray Structure Determination System" A.J. Pearson principal investigator, Wiley J. Youngs co-principal investigator, $151,000 funded toward purchase of diffractometer.

National Institutes of Health, RR04277 "X-ray Structure Determination System" A.J. Pearson, principal investigator. Awarded $31,370 toward purchase of diffractometer.

National Science Foundation, CHE-8804605 "Establishment of a REU site for Summer

Research." A.J. Pearson, principal investigator, F.L. Urbach, co-principal investigator. $96,000 award for three year period 1988-90, to establish a summer undergraduate research program.

National Science Foundation, CHE-8921944 "New Methods for Synthesis of Bioactive Terpenes". A.J. Pearson, principal investigator, 10% of effort. $95,724 average annual total costs for period 06/01/90 - 05/31/93.

American Chemical Society, Petroleum Research Fund, 22749-AC1. "Chemistry and Synthetic Applications of Diene-Molybdenum Complexes." A.J. Pearson, principal investigator, no salary support. $40,000 total costs for period 07/01/90 - 08/31/92.

National Institutes of Health, 2 R01 GM36925. "Arene Activation by Transition Metals." A.J. Pearson, principal investigator, 8% of effort. $86,854 average annual direct costs for period 12/01/90 - 11/30/93.

National Science Foundation, DMR 89-0185 "Structure, Dynamics and Transitions of Liquid Crystalline Polymers." V. Percec and J. Blackwell, co-principal investigators. A. J. Pearson, co-investigator. $1,719,331 direct costs for period 7/1/92 - 6/30/96. Materials Research Group of eleven faculty in an interdisciplinary research effort.

National Institutes of Health, AI-30189. "Discovery of New Drugs Active Against Mycobacterium Avium." P.J. Brennan, Principal Investigator. A.J. Pearson, Investigator. $35,562 direct costs for the period 8/01/92 - 7/31/93.

American Chemical Society, Petroleum Research Fund. 27138-AC1 "Chemistry and Synthetic Applications of Diene-Molybdenum Complexes." A.J. Pearson, principal investigator. $50,000 total costs for period 09/01/93 - 08/31/95.

National Science Foundation. CHE-93 08105. "Organoiron Complexes in Organic Synthesis." A.J. Pearson, principal investigator, 8% of effort. $353,965 total costs awarded for period 7/1/93 - 6/30/96.

National Institutes of Health, 2 R01 GM36925. "Arene Activation by Transition Metals." A.J. Pearson, principal investigator, 8% of effort. $140,000 average annual direct costs for period 12/01/93 - 11/30/96.

National Institutes of Health. 1 R01 GM49221. "Group VIA Metal Complexes in Synthesis." A.J. Pearson, principal investigator, 0% effort. $114, 609 average annual direct costs for period 08/01/95 - 07/31/99.

National Science Foundation. STI-9602220 "Revitalization of Chemistry - Phase I Facilities Renovation." Academic Research Infrastructure grant awarded for renovation of chemistry research laboratories at Case Western Reserve University. A.J. Pearson, principal investigator, K.L. Kutina, co-principal investigator. $1,200,000 awarded towards costs of said renovation,

9/15/96.

Cleveland Foundation. Grant of $495,000 for new faculty hiring during the period 1995-2001.

Ohio Board of Regents. Action Grant of $1,000,000 awarded as part matching funds for the NSF grant noted above for Phase I Facilities Renovation in the chemistry department. A.J. Pearson, principal investigator, K.L. Kutina, co-principal investigator. Total project cost: *ca* $4,600,000.

The 1525 Foundation. Challenge Grant "Center for Discovery in Science". $12,000,000 awarded to Case Western Reserve University for Chemistry Department facilities modernization and faculty start-up costs over a five-year period from 1996. The proposal was developed by Kenneth L. Kutina, Anthony J. Pearson, and Susan Jaros.

The Lubrizol Foundation. December 1996. Grant of $525,000 awarded for upgrading/expansion of organic chemistry instructional laboratories in the Chemistry Department at CWRU. Proposal developed by Kenneth L. Kutina, Anthony J. Pearson, and Patricia Scalzi.

The BFGoodrich Foundation. Grant of $350,000 for renovation of Core labs.

GAR Foundation. Grant for renovation of laser spectroscopy research labs. Numerous other renovation grants from: *Goodyear Corporation* ($350,000), *Codrington Foundation, Abington Foundation*, and others.

National Science Foundation. CHE-9616247. "Organoiron Complexes in Organic Synthesis." A.J. Pearson, principal investigator, 8% of effort. $374,869 total costs awarded for period 01/1/97 - 12/31/99.

National Institutes of Health, 2 R01 GM36925. "Arene Activation by Transition Metals." A.J. Pearson, principal investigator, 8% of effort. $930,652 total costs awarded for period 08/01/97 - 07/31/2001.

National Science Foundation. CHE-0131043. "Organoiron Complexes in Organic Synthesis." A.J. Pearson, principal investigator, 8% of effort. $390,000 total costs awarded for period 01/01/02 - 12/31/04.

National Institutes of Health, 2 R01 GM36925-14. "Arene Activation by Transition Metals." A.J. Pearson, principal investigator, 8% of effort. $803,250 total costs awarded for period 04/01/02 - 03/31/05.

American Chemical Society Petroleum Research Fund 37395-AC4. “New Chemosensors Based on Tetraalkyl-p-phenylenediamines.” A. J. Pearson, principal investigator. $80,000 total costs for period 01/01/02 – 08/31/04.

National Science Foundation. CHE-0449642. "Organoiron Complexes in Organic Synthesis." A.J. Pearson, principal investigator, 8% of effort. $426,000 total costs: 01/01/05 - 12/31/08.

National Science Foundation. CHE-0743234. "Organoiron Complexes in Organic Synthesis." A.J. Pearson, principal investigator, 8% of effort. $435,000 total costs: 10/01/08 - 09/30/11.

ANTHONY J. PEARSON
PUBLICATIONS

1. J. A. Blair and A. J. Pearson; A Kinetic Study of the Autoxidation of Tetrahydrobiopterin; *Tetrahedron Letters* **1973**, 203.

2. J. A. Blair and A. J. Pearson; The Autoxidative Ring Contraction of Blocked Tetrahydropterines: Origin of Introduced Oxygen Function; *Tetrahedron Letters* **1973**, 1681.

3. J. A. Blair and A. J. Pearson; Kinetics and Mechanism of the Autoxidation of the 2-Amino-4-hydroxy-5,6,7,8-tetrahydropteridines; *J. Chem. Soc., Perkin Trans. II* **1974**, 80.

4. J. A. Blair and A. J. Pearson; Some Observations on the Effects of Light and Solvent Polarity on the Kinetics of Tetrahydrobiopterin Autoxidation; *J. Chem. Soc., Perkin Trans. II* **1974**, 1786.

5. J. A. Blair and A. J. Pearson; Non-Enzymatic, Tetrahydrobiopterin-mediated Hydroxylation of Phenylalanine; *J. Chem. Soc., Perkin Trans. II* **1975**, 245.

6. A. J. Pearson and J. A. Blair, Autoxidation of Tetrahydropterines, in *Chemistry and Biology of Pteridines,* Proceedings of the 5th International Symposium held at the University of Konstanz, West Germany, 1975. Ed. W. Pfleiderer. Walter de Gruyter 1975, p. 775.

7. J. A. Blair, A. J. Pearson and A. J. Robb, Autoxidation of 5-Methyl-5,6,7,8-tetrahydrofolic acid; *J. Chem. Soc., Perkin Trans. II* **1975**, 18.

8. A. J. Pearson; Kinetics and Mechanism of the Autoxidation of Tetrahydropterins - Gilbert Morgan Medal Award Address; *Chemistry and Industry (London)* **1974**, 233.

9. A. J. Birch and A. J. Pearson; Organometallics in Organic Synthesis; Alkylations of Tricarbonylcyclohexadienyliron Cationic Complexes with Organozinc and Cadmium Reagents; *Tetrahedron Letters* **1975**, 2379.

10. A. J. Pearson; Organometallics in Organic Synthesis: Formation of cis-2- alkenes by reaction of Tetracarbonyl(allyl)iron Cationic Complexes with Organocadmium Reagents; *Tetrahedron Letters* 1975, 3617.

11. A. J. Birch and A. J. Pearson; Organometallics in Synthesis: Alkylation of Cyclic and Acyclic Dienyl Iron Tricarbonyl Cationic Complexes with Organocadmium Reagents; *J. Chem. Soc., Perkin Trans. I* **1976**, 954.

12. A. J. Pearson; Methylation of Tricarbonylcyclohexadienyliron Salts with Lithium

Dimethylcuprate; *Aust. J. Chem.* **1976**, *29*, 1101.

13. A. J. Birch, P. W. Westerman and A. J. Pearson; Organometallic Compounds in Synthesis. Part VIII. Carbon-13 Nuclear Magnetic Resonance Spectroscopic Study of Tricarbonyl Cyclohexadienyliron Salts; *Aust. J. Chem.* **1976**, *29*, 1671.

14. A. J. Pearson; Carbon-13 Nuclear Magnetic Resonance Spectroscopic Study of Tricarbonyldieneiron Complexes: Methyl Substituent Effects; *Aust. J. Chem.* **1976**, *29*, 1679.

15. A. J. Pearson; Protonation of Tricarbonyldieneiron Complexes: Acid- catalysed Cyclisation of Tricarbonylmyrceneiron; *Aust. J. Chem.* **1976**, *29*, 1841.

16. A. J. Birch and A. J. Pearson, Friedel Crafts Chemistry of Tricarbonyldieneiron Complexes: Carbonylative Annulation of Tricarbonylmyrceneiron; *J. Chem. Soc., Chem. Commun.* **1976**, 601.

17. A. J. Pearson; Alkylations of Tricarbonylcyclohexadienyliron Salts with Mixed Alkylcuprate Reagents; *Aust. J. Chem.* **1977**, *30*, 345.

18. A. J. Pearson; Carbon-13 Nuclear Magnetic Resonance Study of Tricarbonyldieneiron Complexes: Substituent Effects in Relation to π-Bond Order Distributions; *Aust. J. Chem.* 1977, *30*, 407.

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