

Dr. Ian Forristal

Assistant Professor of Organic Chemistry
King Fahd University of Petroleum & Minerals,
P.O. Box 1835, Dhahran 31261, Saudi Arabia.

Curriculum Vitae

+966 – 3 – 860 – 3065 (office)
+966 – 506 – 804 – 909 (mobile)
ianf@kfupm.edu.sa
<http://faculty.kfupm.edu.sa/CHEM/ianf/>

Education

- 1994 - 1998 **Doctoral Research (PhD).** *School of Chemistry, Leeds University, Leeds, England.* Advisor: Dr. C. M. Rayner; "New Stereoselective Conjugate Additions to α,β -Unsaturated Sulfoxides and Sulfones".
- 1990 - 1994 **BSc Chemistry European (1st Class Honours).** *School of Chemistry, Leeds University, Leeds, England;* 1992 – 1993: *École Nationale Supérieure de Chimie à Lille (ENSCL), Lille, France.* Elf-Atochem funded project, "Palladium catalyzed Hydrodimerization of Butadiene".

Professional Experience

- 2000 - Present **Assistant Professor (Organic Chemistry).** *Department of Chemistry, King Fahd University of Petroleum & Minerals, Dhahran, 31261, Saudi Arabia.*
- 1998 - 2000 **Postdoctoral Research Associate.** *Department of Chemistry, King's College London, England;* Advisor: Dr. K. Afarinkia; "New Methods for the Synthesis of Natural Products".
- 1989 - 1990 **Research & Development Scientist.** *ICI Chemical & Polymers, Teeside, England;* Production plant trials of "Novel Pre-Polymerisation Catalysts".

Courses Taught

- Organic Chemistry I
- Organic Chemistry II
- Advanced Organic Chemistry (*Graduate*)
- Heterocyclic Compounds (*Graduate*)
- Organic Chemistry Laboratory I
- Organic Chemistry Laboratory II
- General Chemistry Laboratory II
- Stereochemistry (*Graduate*)

Average Student Evaluation: 9.32 out of 10

Honors and Awards

- KFUPM Instructional Technology Award (2003-4)
- Zeneca Sponsored CASE Award (1994-7)
- Nuffield Institution Sponsored Vacation Studentship (Jul - Aug 1992)

Professional Activities

- KFUPM Chemistry Department: Seminar, Teaching & Safety Committees (2000 – 2005).
- KFUPM Pre-Medical Program Ad-Hoc Committee (2004).
- KFUPM Library Affairs Standing Committee, Deputy Chairman (2001 – Present).
 - Presented various seminars regarding "Effective Utilization of Online Databases" to KFUPM faculty & students
 - Utilization / Connectivity of Online Databases (eg. Sci-Finder Scholar) & Online Journals
 - Student Utilization of the Library & Integration of Library Skills into the Curriculum
 - Formulation of new Circulation & Acquisition Policies

Undergraduate / Graduate Student Supervision

- Supervised 1 Masters Student (2003-2005).
- Supervised 4 Undergraduate Students in Research since 2000.
- Students have given 3 Poster Presentations at Regional Conferences.

Grants Received

- King Abdul-Aziz City for Science & Technology (KACST) Graduate Student Award (AT 12-50), "The Synthesis of Iminophosphonates", ~\$10,000 (2004-2005).

Membership of Professional Societies

- Member of American Chemical Society (ACS); Organic & Education Divisions.
- Chartered Chemist (CChem) and Member of the Royal Society of Chemistry (MRSC).

Conference Presentations

- **I. Forristal**, K. R. Lawson and C. M. Rayner, "New Stereoselective Conjugate Additions to α,β -Unsaturated Sulfoxides and Sulfones", Poster presentation at the American Chemical Society's 35th National Organic Chemistry Symposium, Texas, USA, Jun 1997.
- K. Afarinkia, H. Binch, **I. Forristal**; "Asymmetric Nucleophilic Additions to Vinyl Phosphates"; Abstract No. 413260, 220th ACS National Meeting, Washington, USA, Aug 2000.
- **I. Forristal**, K. R. Lawson and C. M. Rayner, "New Stereoselective Conjugate Additions to α,β -Unsaturated Sulfoxides and Sulfones", Proceedings of the First Saudi Science Conference, Chemistry, KFUPM, Dhahran, KSA, 2001, 499-513.
- N. Abu-Thabit, **I. Forristal**, "Towards the Synthesis of Iminophosphonates", Poster presentation at Second Saudi Science Conference, Chemistry, KAAU, Jeddah, KSA, Mar 2004.
- N. Abu-Thabit, **I. Forristal**, "Towards the Synthesis of Iminophosphonates", Poster presentation at International Conference on Chemistry & Industry: Future Trends for the 3rd Millennium, Riyadh, KSA, Nov 2004.
- **I. Forristal**, "Effective Utilization of Instructional Technology in the Teaching of Undergraduate Organic Chemistry", Oral presentation at International Conference on Chemistry & Industry: Future Trends for the Third Millennium, Riyadh, KSA, Nov 2004.
- **I. Forristal**, "Effective Utilization of WebCT for the delivery of Complementary E-Learning Material for Undergraduate Organic Chemistry", Oral presentation at 4th Annual WebCT European User Conference, Barcelona, Spain, Feb 2005. (<http://www.webct.com/service/ViewContent?contentID=26314542>)

Publications

- **I. Forristal**, K. R. Lawson, C. M. Rayner; *Optically Active 2,3-Epoxy Sulfides As Precursors to 3-Hydroxy-1,2-Dithioethers and 3-Hydroxy-1-Alkenylthioethers*; Tetrahedron Letters, 1999, 40, 7015-18.
- **I. Forristal**, C. M. Rayner; *Recent Advances in the Chemistry of α,β -Unsaturated Sulfoxides and Sulfones*; Advances in Sulfur Chemistry, Vol. 2, Ed. C.M. Rayner, JAI Press, 2000, USA, 155-213.
- K. Afarinkia, H. Binch, **I. Forristal**; "Asymmetric Nucleophilic Additions to Vinyl Phosphates"; Synlett, 2000, 1971.
- **I. Forristal**, J. Lowman, K. Afarinkia and J. W. Steed, "A Helical Structure Held Together By Phosphonate C-H...O Hydrogen Bonds", CrystEngComm, 2001, 1, 53-56.
- K. Afarinkia, H. Binch, **I. Forristal**, C. Jones, J. Lowman, E. De Pascale and A. Twist, "Asymmetric Induction by Chiral Phosphorus", Phosphorus, Sulfur and Silicon, 2002, 177(6-7), 1641-1644.
- **I. Forristal**, K. R. Lawson and C. M. Rayner, "Stereoselective Conjugate Additions of Thiolate Nucleophiles to Homochiral (E)- γ -Hydroxy- α,β -Unsaturated Sulfoxides and Sulfones", Sulfur Letters, 2003, 26, 89-94.
- **I. Forristal**, "The Chemistry of α,β -Unsaturated Sulfoxides and Sulfones: An Update", J. Sulfur Chem., 2005, 26, 163-195.
- **I. Forristal**, "Bicyclic with other Heteroatoms - Bicyclic with bridgehead S, Se or Te", Comprehensive Heterocyclic Chemistry III, Eds. A. Katritzky, R. Taylor, C. Ramsden and E. Scriven, Elsevier: U.K., Vol. 11. Ch. 11; to be published in 2007.