

Resume - DR. JOHN SCHEIRS

Principal Consultant

ExcelPlas Geomembrane Testing Services (GEOTEST)
Specializing in Testing and Analysis of Geosynthetics

John Scheirs is the author of the leading book on polymer failure entitled 'Compositional and Failure Analysis of Polymers' published by Wiley in England (2000), 766 pages.

John Scheirs is the author of the leading book on plastics recycling entitled 'Polymer Recycling: Science, Technology and Applications' published by Wiley in England (1998), 591 pages.

Services provided include

- Polymer Identification and Deformulation
- Mechanical Property Testing of Polymers
- Manufacturer Compliance Testing
- Polymer Material Selection for New Applications
- Failure Analysis of Plastics, Geomembranes and Geosynthetics
- Chemical Compatibility and Chemical Resistance
- Polymer Degradation and Stabilization
- Stabilization and Durability Testing (OIT, QUV)
- Contamination Identification
- Material Selection
- Technology Review Reports
- Litigation Support
- Expert Witnessing

Contact Details

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Education

B.Sc. (hons.), Applied Chemistry, University of Melbourne, 1987
Ph.D., Applied Chemistry, University of Melbourne, 1991

Employment

1991-1992 Senior Chemist, Mobil-Exxon Joint Venture. Duties included:
- Testing and analysis of polyethylene products

- Characterization of polyethylenes by DSC, FTIR, GC, HPLC

1992-1994 Product Development Engineer, Mobil-Exxon Joint Venture (now Qenos). Duties included:

- Development of polyethylene pipe, film, blow moulded and extruded products
- Development of applications for recycled polyethylene
- Development of applications for recycled crumb rubber

Employment cont'd

1994-1997 Polymer Consultant (ExcelPlas).

Contract research and development in plastics and polymers. Specific projects included:

- Assessment of the photooxidative stability of polyesters
- Weathering of plastics and their photostabilization
- Assessing oxidation and photooxidation of polymers
- Development of recycling processes for plastics
- Failure analysis of injection-moulded ABS
- Development of fluorinated polyurethane coatings
- Life assessment of transformer insulation
- Chemical resistance and environmental stress cracking of polycarbonate
- Failure analysis of engineering plastics and polymer composites

1998-2000 Technical & Process Manager, Coca-Cola Amatil, Beverage Packaging Division. Duties included:

- Establishing quality control processes and procedures
- Commissioning of new \$25M plant for the closed-loop recycling of PET bottles

2000- Polymer Consultant (ExcelPlas Geotest).

Testing, Chemical Analysis and Forensic Investigation of Geomembranes

Services provided include:

- Troubleshooting Field Failures
- QC and QA of Geomembranes and Polymeric Liners
- Geomembrane Testing and Evaluation
- Special Projects, Product Development
- Geomembrane Selection and Evaluation for New Applications
- Failure Analysis of Polymers and Rubbers
- Chemical Compatibility and Chemical Resistance
- Polymer Degradation and Stabilization
- Plastics Identification and Deformulation
- Contamination Identification
- Expert Witnessing/Litigation Support

Publications

Over 50 scientific publications in international journals as well as six encyclopedia chapters on polymers, plastic recycling and coatings.

Author of the leading textbook on polymers and plastics entitled *Compositional and Failure Analysis of Polymers*, John Wiley & Sons, Great Britain, 2000.

Author of leading book on plastics recycling (*Polymer Recycling*) Science,

Technology and Applications), John Wiley & Sons, Great Britain, 1998.

Coeditor of two books on metallocene-based polyolefins, *Metallocene-based Polyolefins*, John Wiley & Sons, Great Britain, 2000.

Coeditor on book on polyester engineering resins entitled 'Modern Polyesters'
John Wiley & Sons, Great Britain, 2003.

Coeditor on book on styrenic engineering resins entitled 'Modern Styrenic Polymers'
John Wiley & Sons, Great Britain, 2003.

'Feedstock Recycling and Pyrolysis of Waste Plastics: Converting Waste Plastics into Diesel and Other Fuels', published May 2006 ISBN: 0-470-02152-7, 816 pages.), John Wiley & Sons, Great Britain, 2006.

<http://www.wiley.com/WileyCDA/WileyTitle/productCd-0470021527.html>

Special Interests

Member of the editorial board of the international journal *Polymer Degradation and Stabilization*, Elsevier Scientific, Netherlands.

Legal Experience

I have provided in excess of 30 expert reports for the following legal companies:

Anderson Rice (Melb.)
Hartmann and Associate (NSW)
Clayton Utz (Melb.)
Phillips Ormonde Fitzpatrick (Melb.)
Trivett Keating (Melb.)
Gadens (Qld)
Unisearch (NSW)
Mallesons (NSW)
Middletons (Melb.)
Deacons (Melb.)
Minter Ellison (S.A)
Wotten Kearney (NSW)
Phillips Fox (Melb.)