

Keith West

Dr West is the principal of Design Cad Pty Ltd, a company based at the University of Adelaide Commerce and Research Precinct, Thebarton, South Australia 5031.

He holds the degrees of BSc, BSc (Hons), PhD from the University of Adelaide.

EMPLOYMENT HISTORY:

1969 - 1971 *Lecturer in Biology, School of Pharmacy, South Australian Institute of Technology.*

1972 - 1985 *Senior Lecturer in Biology, School of Pharmacy, South Australian Institute of Technology*

1986 -1996 *Principal Lecturer in Biology, School of Pharmacy and Medical Sciences, University of South Australia*

1997 - *Managing Director, Design Cad Pty Ltd, software training consultancy - University of Adelaide, Commerce & Research Precinct, Stirling Lane, 24 Stirling St., Thebarton SA 5031.*

www.designcad.com.au

PROFESSIONAL EXPERIENCE:

South Australian Institute of Technology

- Professional lecturer with 28 years experience. Strong background in general biology, computing and environmental science. Responsible for course development and management of both undergraduate and postgraduate courses involving large student numbers (>400).
- Extensive experience as a researcher in a wide variety of fields. Lectured and published in marine biology, arid zone biology, plant physiology, biochemistry, electron microscopy, pharmaceutical nutrition fluids, haematology and computer science. Developed courses on environmental issues and environmental legislation as they affect the practice of architecture.
- Foundation member and later chairman for eight years of the Research Committee of the South Australian Institute of Technology. Developed methods for ranking grant applications, distributing funds and monitoring progress of research. Funds managed grew from \$10,000 p.a. to \$500,000 p.a. under chairmanship.
- Founding editor of the 'Research Register' of the SA Institute of Technology.

The University of South Australia

- Principal lecturer and member of development team that designed and mounted the first undergraduate degree course for Environmental Biology/Toxicology in Australia. Responsible for introducing and teaching in all first year components 1992-95.
- Author of 25 scientific publications.

Design Cad Pty Ltd

- Project management of the development of a commercial software application to configure home automation software (Visual Basic and C).
- Developed techniques for creating computer-based Digital Terrain Models of riverbeds enabling net volumes of deposited effluent to be calculated. Used the technique for monitoring discharge into and dredging from the Port River for Penrice Soda Products plant, Osborne SA. Programmed in AutoLISP and Fortran. Consultant to Penrice Soda Products for a project aimed at minimising effluent losses.
- Developed and maintained the following Internet web sites:
 - www.designcad.com.au
(Computer Aided Design and environmental science)
 - www.temporal.com.au
(3D modelling site)
 - www.icad.net.au
(Distance learning site)
- Trained staff in a number of suburban councils in the use of software used to automate survey and civil engineering processes.

- Appointed as CAD consultant to Salisbury Council with special interest in the performance of constructed wetlands.
- Installed Windows NT networks and Remote Access for Genpower/ASCA – major exporter of standby power generator sets.
- Coordinated development of a database for the Citrus Marketing Board that enables predictions of future yield among different varieties of fruit.
- Author of 26 publications on various aspects of Computer Aided Design.

MEMBERSHIP OF PROFESSIONAL INSTITUTIONS AND SOCIETIES:

Australian Society of Plant Physiologists
Australian Society of Parenteral Nutrition

MEMBERSHIP OF ADVISORY BOARDS

Graduate Entrepreneurial Program, University of Adelaide, 2000 – 2003 present.
Advisory board, Bachelor of Applied Science in Environmental Biology/Toxicology, School of Pharmacy and Medical Sciences, University of South Australia, 1995-2000
Recombinant DNA Committee, University of South Australia, 1993 - 2000
Contributing Editor, ControlAltDelete Journal, Pen and Brush Publishers, Hawthorn, VIC.

PUBLICATIONS:

Computer software:

AutoCAD to MicroStation [22]: Rendering AutoCAD models in MicroStation. West, KR and Shepherd, A, ControlAltDelete, Vol. 7 (2) 22-27, 1997.
AutoCAD to MicroStation [21]: Rendering AutoCAD files in MicroStation. West, KR and Shepherd, A, ControlAltDelete, Vol. 7 (1) 12-18, 1997.
AutoCAD to MicroStation [20]: Monitors, Twin Screens, Palettes etc. West, KR, ControlAltDelete, Vol. 6 (4) 8-10, 1996.
AutoCAD to MicroStation [19]: Large File Translation (part b) West, KR, ControlAltDelete, Vol. 6 (3) 8-11, 1996.
AutoCAD to MicroStation [18]: Large File Translation (part a) West, KR, ControlAltDelete, Vol. 6 (2) 8-12, 1996.
Selecting, configuring and financing suitable hardware for Computer Aided Design. West, KR, ControlAltDelete, Vol. 6 (2) 38-40, 1996.
AutoCAD to MicroStation [17]: Operating Systems. West, KR, ControlAltDelete, Vol. 6 (1) 8-10, 1996.
AutoCAD to MicroStation [16]: DWG and DGN Files in a Quality System, West, KR, ControlAltDelete, Vol. 5 (4) 8-15, 1995.
AutoCAD to MicroStation [15]: Attributes and Tag Conversion. West, KR, ControlAltDelete, Vol. 5 (3) 16-19, 1995.
AutoCAD to MicroStation [14]: Block Conversion. West, KR, ControlAltDelete, Vol. 5 (2) 26-28, 1995.
AutoCAD to MicroStation [13]: Converting Survey Drawings. West KR, ControlAltDelete, Vol. 5 (1), 8-11, 1995.
Plant Process Information Systems. West KR, ControlAltDelete, Vol. 5, 34-39.
AutoCAD to MicroStation [12]: Font Conversion. West, KR, ControlAltDelete, Vol. 4 (4), 8-13, 1994.
AutoCAD to MicroStation [11]: Construction of 3D models, West, KR, ControlAltDelete, Vol. 4 (3) 8-14, 1994.
AutoCAD to MicroStation [10]: Workspaces and Design Planes. West, KR, ControlAltDelete, Vol. 4. (2) 8-12, 1994.
AutoCAD to MicroStation [9]: ISO text and Dimensioning. West, KR, ControlAltDelete, Vol. 4 (1) 8-11, 1994.
AutoCAD to MicroStation [8]: AS1100 and Fonts. West, KR, ControlAltDelete, Vol. 3 (4) 8-10, 1993.
AutoCAD to MicroStation [7]: Cells and Cell Libraries. West, KR, ControlAltDelete, Vol. 3 (3) 14-17, 1993.
AutoCAD to MicroStation [6]: Palettes and Reference Files. West, KR, ControlAltDelete, Vol. 3, (2) 12-15, 1993.
AutoCAD to MicroStation [5]: Title blocks. West, KR, ControlAltDelete, Vol. 3 (1) 12-15, 1993.
Getting Started – Hardware (part 1). West, KR, Multi-CAD Magazine, Vol. 1 (1) 18-20, 1993.
Getting Started – Hardware (part 2). West, KR, Multi-CAD Magazine, Vol. 1 (2) 37-39, 1993.
AutoCAD to MicroStation [4]: Importing logos. West, KR, ControlAltDelete, Vol. 2 (4) 22-24, 1992.
AutoCAD to MicroStation [3]: A1 drawing sheets. West, KR, ControlAltDelete, Vol. 2 (3) 28-29, 1992.
AutoCAD to MicroStation [2]: Units and Design Plane Settings. West, KR, ControlAltDelete, Vol.2 (2) 23-27, 1992.
AutoCAD to MicroStation [1]: Installation. West, KR, ControlAltDelete, Vol. 2 (1) 16-18, 1992.

Research Administration:

The Librarian's role in assisting research in the advanced education sector. 'Learning Resources for the Health Sciences in Australia" Vol. 1, 33-41, 1985

General Science:

- Aggregation by platelets from pregnant zinc deficient rats.* West, KR, Dreosti, IE, Gargett, CE and Record, I., Nutrition Reports International Vol. 22, p 1-17, July 1980.
- The Effect of Intralipid on Platelet Aggregation* Gargett, CE, West, KR, Cheney, K and Thomas, MP Abstract accepted for publication in Journal of Parenteral and Enteral Nutrition, July 1978.
- A Manual of Paediatric Parenteral Nutrition.* 2nd Ed. Thomas, MP, Cosh, DG, Pocock, H, Langford, HM, West, KR and Sansom, LN Published by Adelaide Children's Hospital, June 1977.
- A Support Screen for a Commercial Twin 90 Membrane Filter.* West, KR, Cosh, DG and Thofern, R, Bulletin of Parenteral Drug Association, Vol. 34, 211-212, 1977.
- The Preparation of Parenteral Nutrition Solutions.* Cosh, D, West, KR, Thomas, MP and Sansom, LN, Aust. J. Pharm. Sci. Vol. 6, 97-106, 1977.
- Parenteral Nutrition – A Handbook.* 1st Ed. Thomas, MP, Cosh, DG, Langford, HM, West, KR, and Sansom, LN Published by Dept. Surgery, Adelaide Children's Hospital, 1976.
- In-line Filter Blockage when Using Membrane Filters in Drip Sets during Parenteral Nutrition.* Thomas, MP, Cosh, DG, West, KR, and Sansom, LN, Med. J. Aust. Vol. 1, 146-147, 1975.
- Formulations and Preparation of Single Bottle Parenteral Nutrition Solutions.* Cosh, DG, Thomas, MP, Sansom, LN, and West, KR, in Proc. Inter. Symp. Parenteral Nutrition published J.W. Pfimmer & Co. 1-3-110, 1974.
- Evidence for Two Phosphorylation Sites Associated with the Electron Transport Chain of Chloroplasts.* West, KR and Wiskich, JT Biochimica et Biophysica Acta. Vol. 292, 197-205, 1973.
- The Anatomy of Atriplex leaves.* West, KR in "The Biology of Atriplex-Studies of the Australian arid zone." CSIRO Symposium publication 11-15, 1970.
- Ion Absorption in Atriplex Leaf Tissue II Secretion of ions to epidermal bladders.* Osmond, CB, Luttge, U, West, KR, Pallaghy, CK and Sacher-Hill, B, Aust. J. Biol. Sci. Vol. 22, 797-814, 1969.
- The Action of Dio-9 on Photophosphorylation.* West, KR and Wiskich, JT, FEBS LETTERS, Vol. 3, 247-249, 1969.
- A Comparison of the Effect of Metabolic Inhibitors on Chloride Uptake and Photosynthesis in Chara corallina.* Smith, FA and West, KR Aust. J. Biol. Sci. Vol. 22, 351-363.
- Photosynthetic Control by Isolated Pea chloroplasts.* West, KR and Wiskich, JT Biochem. J. Vol. 109, 527-532, 1968.
- Rubidium as a Tracer for Potassium in the Marine Algae Ulva lactuca and Chaetomorpha darwinii.* West, KR, and Pitman, MG Nature Vol. 214, 1262-1263, 1967.
- Ionic Relations and Ultrastructure in Ulva lactuca.* West KR, Pitman, MG, Aust. J. Biol. Sci. Vol. 20, 901-914, 1967.
- Salt Regulation in the Mangroves Rhizophora mucronata and Aegialitis annulata.* Atkinson, MR, Findlay, GP, Hope, AB, Pitman, MG, Saddler, HDW and West, KR, Aust. J. Biol. Sci., Vol. 20, 589-599, 1967.
- Salt Regulation in Mangroves.* Saddler, HDW, and West, KR, Report on the NSF Expedition to the Princess Charlotte Bay, N. Qld. Abroad R/V "Alpha Helix" 1966. Scripps Institution of Oceanography, University of Southern California at San Diego, 51-53, 1966.
- Sodium and Potassium Transport in the Marine Algae Chaetomorpha darwinii.* Dodd, WA, Pitman, MG and West, KR, Aust. J. Biol. Sci. Vol. 19, 341-354, 1966.