



Operating Plant and Systems

'Your Increased Profitability is Our Bottom Line'

ALAN P. ROSSITER, PH.D., PE PROCESS INTEGRATION CONSULTANT

CAREER PROFILE

Alan Rossiter is a specialist in industrial process improvement, focusing particularly on waste minimization and energy efficiency. Alan has performed a wide variety of energy efficiency projects, including pinch analyses, steam system upgrades, and operational improvements, for both existing facilities and grassroots designs. He has also led numerous waste minimization projects, including NO_x and SO_x reduction projects and wastewater minimization projects. Most of this work has been conducted in large-scale oil refining and petrochemicals applications.

The environmental implications of this work have become increasingly prominent. He edited a book on this subject (*Waste Minimization through Process Design*) for McGraw-Hill (published 1995). More recently he authored the *Energy Management* article for the *Kirk-Othmer Encyclopedia of Chemical Technology* (John Wiley & Sons, In Press 2004).

Alan received his Ph.D. in chemical engineering from the University of Cambridge. He is a Chartered Engineer, a Professional Engineer (Texas) and a member of the Institution of Chemical Engineers and the American Institute of Chemical Engineers.

PROFESSIONAL EMPLOYMENT

FIT, Inc. (1999 to present)

With Rossiter & Associates, Alan has advised corporate engineers, executives and government agencies in the design of programs to improve energy efficiency in both grassroots designs and existing process plants.

**Rossiter & Associates, Bellaire, TX, Process Improvement Consultants
(September 1997 to present)**

President

With Rossiter & Associates, Alan has advised corporate engineers, executives and government agencies in the design of programs to improve energy efficiency in both grassroots designs and existing process plants. He has also executed industrial energy efficiency, debottlenecking and waste minimization studies, as sole consultant and as a member of study teams, and developed process improvement projects. Principal industries served are refining and petrochemicals. Clients include ExxonMobil, Citgo, Syncrude Canada, Sasol (Pty) Ltd. (South Africa), and the Government of Canada.

**Linnhoff March Incorporated, Houston, TX
(January 1989 to August 1997)**

Energy Efficiency and Waste Minimization Consultant

Alan served in a variety of technical and management roles with Linnhoff March, including a period as President of the US operation, reporting to the Managing Director in England. Other responsibilities during his time with Linnhoff March included conducting and managing environmental and energy efficiency studies, primarily in oil refining and petrochemicals applications; developing new methodologies and software for pollution prevention, based on process integration concepts; running public and private courses; supervising the company's Houston engineering group; and sales support and account management.

Imperial Chemical Industries (ICI) PLC (1979-1989)

Chemicals Manufacture

Alan worked in a wide range of functions during his time at ICI. These included Process Engineer, responsible for technical troubleshooting at Winnington Works (Cheshire England); Technical Manager, responsible for designing and commissioning new equipment and supervising contract construction work at Weston Point Salt Works (Cheshire, England); Senior Research Scientist, conducting research in new process design methods at New Science Group (Runcorn Heath, Cheshire, England); and Pilot Plant Shift Manager, supervising a shift team operating a novel soda ash pilot plant and evaluating plant performance at Magadi Soda Company (Magadi, Kenya).

EDUCATION

University of Cambridge, England
B.A., Natural Sciences/Chemical Engineering, 1978
M.Eng., Chemical Engineering, 1979
Ph.D., Chemical Engineering, 1990

SELECTED PUBLICATIONS

A. P. Rossiter, M. A. Rutkowski and A. S. McMullan, 'Pinch Technology Identifies Process Improvements', *Hydroc. Proc.*, Vol. 70, No. 1, pp. 63-66, January 1991.

A. P. Rossiter, 'In Search of Professional Excellence', *CEP*, Vol. 91, No. 2, pp. 70-74, February 1995.

A. P. Rossiter (ed.), 'Waste Minimization through Process Design', McGraw-Hill, New York, 1995.

A.P. Rossiter, H.D. Spriggs and H. Klee, Jr., 'Waste Minimization, Part 2. Applying Process Integration', *Encyclopedia of Chemical Processing and Design, Volume 64*, J. J. McKetta (ed.), Marcel Dekker, New York, pp. 382-395, 1998.

A.P. Rossiter, 'Energy Management', in *The Kirk-Othmer Encyclopedia of Chemical Technology*, on-line edition, John Wiley & Sons, New Jersey, 2005

A comprehensive list of publications (more than 60 entries) is available on request.