

“ENGINEERING EDUCATION AND RESEARCH – 2001: *A Chronicle of Worldwide Innovations*”, iNEER, USA, 2002, ISBN 1-56700-186-6 (in English, 212 pages)

Editors:

Win Aung, Arlington, VA, USA; Peter Hicks, Manchester, England; Luiz Scavarda, Rio de Janeiro, Brazil; Vaclav Roubicek, Ostrava, Czech Republic; Che-Ho Wei, Taipei, Taiwan, Republic of China

TABLE OF CONTENTS:

PREFACE: W. Aung, P. Hicks, L. Scavarda, V. Roubicek and C. Wei

CHAPTER:

- 1 ENGINEERING EDUCATION IN THE NEW AGE: S. K. Fenster
- 2 CULTIVATING, NURTURING, AND SUSTAINING INTERNATIONAL COOPERATION IN ENGINEERING EDUCATION: W. Aung
- 3 AN EDUCATIONAL MODULE OF ACOUSTICS FOR ENGINEERS: E. Macho-Stadler, J. Elejalde-Garcia, J. Janariz-Larumbe and A. Fanco-García
- 4 DIDACTIC PRESENTATION OF WAVE PROPAGATION PHENOMENA BY MEANS OF COMPUTER ANIMATIONS: D. Hercog
- 5 INTRODUCTION OF COMPUTER ALGEBRA SYSTEMS IN NORWEGIAN ENGINEERING EDUCATION: O. Røyrvik and H. P. Hornæs
- 6 NEW ROLES FOR ENGINEERING FACULTY: E. T. Smerdon
- 7 UTILIZING AUTOMATED ASSESSMENT FOR LARGE STUDENT COHORTS: S. Alexander, U. O’Reilly, P. Sweeney and G. McAllister
- 8 CRITERION-BASED CONTINUOUS ASSESSMENT TOWARDS IN-DEPTH AND STUDENT-CENTERED LEARNING: A CASE STUDY: A. Khambadkone
- 9 THE INTRODUCTION OF ACTIVITY-BASED STUDENT INDUCTION AND THE QUEST FOR FACTORS RELATED TO STUDENT WITHDRAWAL FROM ENGINEERING COURSES: N. S. Edward and J. C. R. Middleton
- 10 WORK-BASED LEARNING IN CONTINUING PROFESSIONAL DEVELOPMENT; DENMARK: F. K. Fink
- 11 THE IMPLEMENTATION OF A FIRST-YEAR ENGINEERING PROGRAM AND ITS IMPACT ON CALCULUS PERFORMANCE: S. A. Sorby and A. J. Hamlin
- 12 DISTRIBUTED ONLINE LABORATORIES: J. Tuttas and B. Wagner
- 13 DESIGN OF A WEB-BASED VIRTUAL LABORATORY INSTRUMENT MEASUREMENT INTERFACE: H. Saliyah-Hassane, P. Dumont-Burnett and C. Loizeau
- 14 ADVANCED SOLUTIONS FOR PERFORMING LABORATORY EXPERIMENTS OVER THE INTERNET: T. A. Fjeldly, J. O. Strandman, R. Berntzen and M. S. Shur

- 15 TOWARDS THE AUTOMATED ASSESSMENT OF QUALITY AND DIFFICULTY IN ON-LINE LECTURES: I. D. Benest
- 16 A SYNCHRONOUS REMOTE ACCESSING CONTROL LABORATORY ON THE INTERNET: M. Saad, H. Saliah-Hassane, H. Hassan, Z. El-Guetioui and M. Cheriet
- 17 MODEL FOR INQUIRY AND REFLECTION ABOUT LEARNING AND TEACHING: J. Froyd
- 18 ACCREDITATION OF ENGINEERING PROGRAMMES - A EUROPEAN CASE STUDY: M. Dodridge, M. Kassinopoulos
- 19 A MODEL FOR INTERNATIONAL ACCREDITATION OF ENGINEERING PROGRAMS: S. Sarin