About the Contributors

Patrick Keleher (Senior Lecturer, Faculty of Sciences, Engineering and Health, CQUUniversity, Australia). Patrick’s experience of, and involvement with, Work Integrated Learning/Practice Based Learning commenced 25 years ago when he completed a postgraduate Diploma in Teaching (Physics/Mathematics) at the University of Queensland. Over the 12 years of Patrick’s career as a secondary teacher he was a mentor, supervisor and assessor of pre-service science teachers operating within a Work Integrated Learning/Practice Based Learning model. Over the past 13 years, as a university lecturer, Patrick has led the development and delivery of programs at undergraduate (Director: Built Environment Programs) and postgraduate (Director: Maintenance Management, Environmental Management, Process Engineering Programs) level with the central theme of a Work Integrated Learning/Practice Based Learning philosophy. In 2009, Patrick undertook sabbatical at the Practice Based-Professional Learning Centre of Excellence in Learning and Teaching (PBPL-CETL) at The Open University, Milton Keynes, UK to further his WIL/PBL research interests and has served as a Fellow of the PBPL-CETL. Patrick is the convenor of the Work Integrated Learning – Special Interest Group within CQUUniversity’s Learning & Teaching Education Research Centre (LTERC).

Arun Patil (Lecturer, Faculty of Sciences, Engineering and Health, CQUUniversity, Australia) Arun is a lecturer in Engineering at the Mackay campus of CQUUniversity, Australia. Prior to this position, Arun was a research scholar in the Faculty of Engineering of Monash University, Australia. His PhD research project focuses on the Development of a Global Accreditation Model for the Quality Assurance of Higher Education, with Engineering as a Case Study. He has over 18 years of teaching and administrative experience in India and Australia in higher and further education. Arun has published widely, and his publications include refereed journals, conference papers, book chapters and academic books. He is a Founder Editor-in-Chief of the “International Journal of Quality Assurance in Engineering and Technology Education”. His recently published book, Engineering Education Quality Assurance: A Global Perspective is highly accepted and cited scholarly publication in engineering education community around the globe. Arun has organised over a dozen of international conferences in engineering education in various parts of the globe.

Roberta (Bobby) Harreveld (Former Director, Learning & Teaching Education Research Centre (LTERC), Faculty of Arts, Business, Informatics & Education, CQUUniversity, Australia) Roberta (Bobby) is also the Acting Deputy Dean, School of Education at CQUUniversity Australia and an Adjunct Fellow with the Centre for Educational Research at the University of Western Sydney in Australia. As Director of LTERC, she is responsible for establishing the strategic direction and operational management plan
for education research related activities into learning and teaching at CQUniversity. Bobby’s current
teaching and research is investigating questions around work oriented curriculum design, technologically
mediated pedagogies and epistemologies of teaching and teacher education. This work is located among
the education systems of universities, vocational colleges, schools, workplaces and community learning
settings. She is supervising a number of research higher degree students in this area. Her interests in
work integrated teaching and learning is trans-national, cross-sectoral, multicultural and inter-systemic
in orientation. Bobby is actively engaged in successful competitive research grants with colleagues (e.g.
ARC Linkage Grant 2007-2010); commissioned research projects; (c) research higher degree supervi-
sion; and a sustained output of scholarly work.

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**Thomas Akins** (Executive Director (newly retired), Division of Professional Practice, Georgia
Institute of Technology, USA.) Thomas earned a Bachelor’s of Industrial Engineering degree from the
Georgia Institute of Technology through the cooperative education program. After working in industry
for a brief period of time, Mr. Akins returned to his alma mater to work as Assistant Director of the Co-
op Program, eventually becoming Director. Under his leadership, the department expanded staff and
services to become an umbrella organization for experiential education, including undergraduate and
graduate co-op programs, an extensive internship program, and a strong work abroad program. Over
4,000 students and 1,000 employers are currently participating in these programs at Georgia Tech. Mr.
Akins has been active in professional organizations as well, and was awarded the Clement J. Freund
Award from the American Society of Engineering Education for his meritorious contributions to the field
of cooperative education. In March 2010, he retired from active service at Georgia Tech.

**Bruce Calway** (Associate Dean International, Associate Dean Learning & Teaching, Faculty of
Higher Education, Swinburne University of Technology, Australia) Bruce entered academia in 1991
from a 20 year career in business and ICT design and development. He completed a PhD in Informa-
tion Systems and a 2nd PhD in Education. Bruce is a Professor at Swinburne University of Technology
and he has researched and published extensively in aspects of work-integrated learning, eLearning and
learning environment development.

**Jean-Marie Chatelet** (Assistant Manager - IESP Department, Engineering College (Polytech’Lille),
University of Lille, France) Jean-Marie worked in a Research Centre of metallurgy before becoming
a certified mechanical engineering professor. He has been an educator for more than 35 years and his
experience encompasses working internationally in France, Romania, Spain and Germany and writing
about quality management, delivering curriculum on safety, quality, CAD-CAM and robotics. He is
involved in leadership of a Masters of Health-Safety-Quality-Environment and in a chartered Engineer
training department. In 1982 he was a pioneer in in Computer Aided Teaching and was the author of
a laservision disc about robotics edited by the Industry ministry (1988). He is accredited on 3Dstudio
(Autodesk Training Centre) and was recognised with an award at the World Submarine Movie Festival
(Antibes 1995). He works with the industry and has developed a game JIT-TQ with snecma (Safran
group) in 1999. He has been also involved in European projects (Road Map to EU Machinery Directive
– 2002, Developing of European Work Based Learning Approaches and Methods - 2006).
Gopinath Chattopadhyay (Director – Engineering Postgraduate Programs, Faculty of Sciences, Engineering and Health, CQUniversity, Australia) Gopi has a Bachelor of Engineering (Mech.), Master of Engineering (Industrial Engineering), MBA, Grad Cert. of Education (Higher Edu.) from Queensland University of Technology (QUT) and PhD in Mechanical Engineering from the University of Queensland (UQ). He has 14 years of experience as engineer and manager in design and development and operations management including maintenance and 17 years of experience in Universities in the area of Engineering Management, Asset Management, Maintenance and Reliability in UQ, QUT and CQUniversity Australia. Gopi has collaborative projects with QUT, Monash, Rail CRC, Qld Rail, Swedish Rail, Lulea University of Technology, Sweden, Saarland University, Germany, Indian Institute of Technology India, Qld Health and many other reputed organisations. Research outputs include more than $2.5 million dollar research grants, 10 research student completions and over 130 refereed international journal and conference publications and book chapters.

Conny Christl (RTD Manager, Innovation Service Network GmbH, Austria) Conny is responsible for national and international RTD projects at ISN- Innovation Service Network and was working within the FP 6 EU Integrated Project APOSIDLE. Currently she is writing her PhD in the research field of technology enhanced work-integrated learning at Karl Franzens University Graz (Austria) at the department for information science and information systems. She is especially interested in accompanying innovative learning systems from research to practice. Until 2007 she worked as a project assistant at EURICE (European Research and Project Office) in Saarbrücken (Germany). Conny received her master’s degree in information science from Saarland University (Germany), Department for Information Science in 2007.

Kaye Clark (Former Director – Built Environment programs, Faculty of Sciences, Engineering and Health, CQUniversity, Australia) Kaye has amassed broad experience in education and educational administration over thirty years, from a motivational Health and Safety Education teacher and administrator for Red Cross (State Director of Training-Tasmania) to University and TAFE lecturer in Architecture in Tasmania then Queensland. Kaye is a registered Architect with experience in Tasmania, Jakarta (Indonesia), remote Central Australia and Queensland. In her architectural roles as a sole practitioner or in work for other Architects or builders Kaye combined creative, award-winning design skills with practical expertise in documentation including structural and design detail drawing and full contract administration. Previous administrative architectural specialisations (for various employers) included; intensive problem solving, ensuring sustainability, also build-ability while design integrity is maintained; the implementation of standards and quality assurance (QA); job tracking; also the organisation of people and tasks (which is a long-term expertise). Kaye’s current role at CQUniversity is Head of Built Environment Programs and lecturer.

David Crowe (Learning & Development Manager, BAM Contractors Ltd, Ireland) David is a degree qualified engineer with 10 years experience in the design, delivery and management of training & development solutions in the manufacturing, automation, pharmaceutical and construction sectors. David is highly motivated and adaptable to changing business needs and has a strong interest in training evaluation.

Urbano Domínguez (Professor in Mechanical Engineering, Industrial Engineering School, University of Valladolid, Spain) Urbano has held other professorial positions and undertaken other leadership posi-
About the Contributors

B. Urbano is Assistant Professor in Machine Design at the University of Burgos and the University of La Rioja in Spain at the University of Salamanca, Basque Country University, and Autonomous and Technical Universities of Madrid. Urbano’s fields of interest are optimum design of machine elements, quality and metrology, renewable energies and energy analysis. He is also involved in engineering education research, internationalization and the development and implementation of innovative curricula. He has organized several international Conferences on Engineering Education. He has published several books, research papers and communications to Congresses on these topics. He is a member of the European Society for Engineering Education (SEFI) Administrative Council, and he chairs the SEFI Curriculum Development Working Group (CDWG).

Brian Graham (Lecturer, Faculty of Engineering, Waterford Institute of Technology, Ireland) Brian lectures on undergraduate and postgraduate programmes in Construction Management, Quantity Surveying & Civil Engineering in the areas of Information Technology (IT) in construction, project management, research methods and dissertation supervision. He is currently undertaking a PhD on Knowledge Management (KM) within the leading Irish construction organisations, specifically dealing with the integration of Continuing Professional Development with existing Human Resource Management and IT practices. He has published a number of peer-reviewed journal and conference papers in the area of KM in construction. Other teaching/research interests include the development of IT in the Irish construction industry and work-based learning for construction professionals.

Debbie Gulick (Interim Executive Director, Division of Professional Practice and Director (April 2010), Work Abroad Program, Division of Professional Practice, Georgia Institute of Technology, USA) As DoPP Interim Director, Debbie manages the Georgia Tech Co-op, Internship, Graduate Co-op and Work Abroad Programs, which includes developing program strategies, planning budgeting and resource allocation; coordinating division efforts with other Georgia Tech academic and administrative units; overseeing recruitment efforts of students and employers; and monitoring and reporting division participation and results. In her role as Director of the Work Abroad Program, she is responsible for developing and sustaining a large, broad-based program of international internships and cooperative education opportunities to prepare Georgia Tech students to be leaders with top employers, worldwide. She works with undergraduates and graduates of all majors in the Work Abroad Program. Debbie started the Work Abroad Program in 2005, and during that year the program sent 31 students abroad to gain international work experience. In 2009-2010, Georgia Tech Work Abroad students were sent on 212 global work terms in 35 countries.

Steven Hutchinson (Director, Director of the Postgraduate Certificate in Education, Faculty of Education and Language Studies, The Open University, UK) Steve oversees a unique pre-service course in initial teacher education for graduates and since its inception in 1992 it has contributed 5000 new teachers to the profession; many of whom can only train through this route. Key features of the programme are flexible start and finish points; individualized programmes resulting from a web-based Needs Analysis process; and an Assessment Only route. Steve’s research uses Activity Theory to investigate the problems, dilemmas and opportunities facing student teachers as they move between the university and schools; as they cross boundaries between and within each of these settings. Prior to his appointment to the Open University in 1997 he taught music in Secondary schools in Birmingham and the West Midlands. Steve
About the Contributors

directed the Open University’s Practice-Based Professional Learning Centre for Excellence in Teaching and Learning from 1st October 2007 to 30th September 2008.

Hong-min Ku (Program Director - Chemical Engineering Practice School (ChEPS), Faculty of Engineering, King Mongkut’s University of Technology Thonburi, Thailand) Hong-ming was born in Taiwan, grew up in Thailand, and educated in the US. He holds a B.S degree from the University of Illinois at Urbana-Champaign and M.S. and Ph.D. degrees from Northwestern University, all in chemical engineering. Upon graduation in 1989, Hong-ming went to work for Aspen Technology, Inc., a leading software company in process simulation in Cambridge, Massachusetts, where he held a number of positions in Technical Services, Applications, and Sales Divisions. Hong-ming has been a faculty member in the Department of Chemical Engineering at King Mongkut’s University Technology Thonburi in Bangkok, Thailand, since 1997. He currently is the Director of the Chemical Engineering Practice School (ChEPS), an international Master’s practice-based curriculum modeled after MIT’s David H. Koch Chemical Engineering Practice School. Dr. Ku’s research interests are in engineering education, process simulation, and optimization.

Stefanie Lindstaedt (Division Manager Knowledge Services, Knowledge Management Institute (KMI), Know-Center and Graz University of Technology (TUG), Austria) Stefanie is also scientific coordinator of the MIRROR IP on reflective learning at work. She is responsible for the management of many large, multi-firm projects and the scientific strategy of the division. Stefanie is also senior researcher at the Knowledge Management Institute of the Technical University Graz. In this role she is involved within the MATURE IP responsible for the knowledge maturing services to be developed. For more than 15 years she has been leading interdisciplinary, international projects in the fields of knowledge management, technology enhanced learning, semantic systems, and software engineering. She holds a PhD and a M.S. both in Computer Science from the University of Colorado (CU) at Boulder (USA). She is member of the Centre for LifeLong Learning and Design and the Institute of Cognitive Science at CU, has published more than 100 scientific papers, has chaired numerous workshops and served on a multitude of program committees.

Jesús Magdaleno (School of Industrial Engineering, University of Valladolid, Spain) Jesús is currently Associate Professor in Mechanics of Materials at the University of Valladolid, where he was formerly Assistant Teacher. His fields of interest are finite element method (FEM) applied to structural mechanics, elastoplasticity and 2D beam element analysis. He is also involved in engineering education research and innovative curricula. He is an active member of Curriculum Development Working Group (CDWG) of the European Society for Engineering Education (SEFI). He has been Vice- Director for Quality and Innovation between 2000 to 2004 quality and innovation.

Gerald Murphy (PhD candidate, Faculty of Higher Education Lilydale, Swinburne University of Technology, Australia) Gerald was formerly the Certification Program Manager, Executive Officer national PDAustralian Computer Society (ACS) responsible for the Masters level distance education applied learning programs for members; ACSLearn an eLearning portal; Education across the nation. Gerald was Deputy Head of School of Information Technology (Education Programs) at Swinburne University. He was consultant/manager/technical advisor to IMS Computer Services; Olivetti Australia;
About the Contributors

Southern Cross Assurance; Turner Manufacturing Company; International Computers; and Independent consultant. He has held the position from 1996-2000 as Chair of Australian Cooperative Education Society. In 1997 he was awarded the Donald Maclaren Prize for outstanding contribution to Cooperative Education internationally. He has published extensively on Professional Development; Information Systems Curriculum Development; Quality in Education; and Cooperative Education. He has conducted professional development workshops for: ACS; Australian Society of Accountants 1976-1979; Institute of Chartered Accountants; Australian Dental Association; Australian Optometrist Association; and conducted “in-house” for various organisations.

Walter Nuninger (Head- IESP Department, Engineering College (Polytech’Lille), University of Lille, France) After graduating as a chartered engineer of the ENSEM (mechanics, electricity, automatic) Walter obtained a PhD dealing with robust diagnosis based on redundancy methods. He worked as a researcher engineer for an ALSTOM Transport project (friction, train traction). He has demonstrated project leadership with applied research in an innovative environment dedicated to industrial goals. He has been associate professor at the university since 1999 with a position at the engineering college IAAL dealing with food-industry (mathematics, computer science, automatic, data mining). He has been responsible of the 1st year of the training. In 1998, he became head of the IESP department dealing with LLL and production field. Through the years Walter was involved in several activities dealing with pedagogy (WBL, evaluation, curriculum, industrial project and internship), organization (school, network, conference committee, work groups) and managing (studies, department). His research interests focus on e-learning, pedagogy and international activities.

Aidan O’Connell (Contracts Manager, BAM Contractors Ltd, Ireland) Aidan joined BAM in 1993 and has worked on a wide variety of projects from Public Sector through to high-tech projects to commercial works. He has a proven track record of delivering high quality projects, reflected as the overall winner of the Irish Concrete Society for the Carlow Arts Centre. He has recently completed a number of projects within Dublin City Centre where he gained valuable experience in delivering challenging projects. Aidan was promoted to his current position as Contracts Manager in 2005 and is currently working on the new NUI Galway Engineering Building.

Karin Reinhard (Head of Department of the International Business Program, Faculty of Business, Baden-Württemberg State University of Cooperative Education, Germany) Karin teaches Marketing and Internet Management plus Media Economics. Karin has held the Head of Department position since 2007. Her research interests focus upon cooperative education and social marketing. Before coming to the Baden-Württemberg Cooperative State University she was Executive Head of Division Information and Communications Technology Policy Section at the Bavarian State Chancellery. Among other things she was responsible for the launch of the Bavarian Virtual Market Place, www.baynet.de and the Bavarian Virtual Campus www.vcb.de. Karin published her doctoral thesis on Industry Sponsorship, a comparative study between Germany and the United States. She studied Business Administration at Mannheim University, Germany where she completed a master’s degree. In addition she received a postgraduate degree in Educational Science. Until 2008 she was chair of the German chapter of ISBE/SIEC - International Society for Business Education/ Société Internationale d’Education Commerciale, where she still enjoys her membership and Karin is a member of the Academy of International Business.
Shalini Singh (Senior lecturer, Faculty of Management Sciences, Durban University of Technology, Republic of South Africa) Shalini has also lectured at the University of Basle (Switzerland), Berufsakademi in Loerrach (Germany) and Dualhoschule in Ravensburg (Germany). She has co-lectured to exchange students from the University of Beijing. She is also employed as a moderator, examiner and supervisor in a number of universities in South Africa and is a member of the Higher Education Quality Forum for Quality. Shalini is responsible for supervising Master’s and Doctoral research in the Department of Operations and Quality Management at her university. Published poster and publications for World Congress on Environmental Health 2004, International Business and Economics Discussion Papers (2009) and presented in Quality related conferences nationally and internationally. She currently chairs a research group which investigates Quality related matters.

Kin Wai Michael Siu (Laboratory Leader of Public Design Laboratory, School of Design, The Hong Kong Polytechnic University, Hong Kong SAR, China) Michael is also a Visiting Professor of the Academy of Arts and Design, Tsinghua University. He is a chartered designer and registered professional engineer. He is fellow and honorary fellow of different international, academic, design and engineering organizations and associations. He was Academic Visitor of the University of Cambridge, Fulbright Scholar at the Massachusetts Institute of Technology, ASIA Fellow of the National University of Singapore, and Visiting Scholar of the UC Berkeley. Michael’s major research and design interests include: design culture and theory, public design, design and engineering education. He has provided consultancy services in public design and design and engineering programmes and he has published more than 150 refereed papers. He has won numerous international design and invention awards, and owned more than 50 US and Asian design patents.

Ken Thomas (Head of Department, Faculty of Engineering, Waterford Institute of Technology, Ireland) Ken has been Head of Department of Construction & Civil Engineering at Waterford Institute of Technology since 2002. The Department includes education and research programmes in Construction Management & Engineering, Quantity Surveying, Civil Engineering and Construction Project Management. As a direct result of his PhD studies he co-founded the Construction IT Alliance (CITA) in Ireland in 2001 and he continues to be a Director of this Industry-Academia organization. Ken is passionate about Industry and Academia working closely together, particularly at postgraduate level, for their mutual benefit.

Saranya Thonglek (Doctorate Candidate, School of Chemical Engineering, University of Queensland, Australia) Saranya has been the administrator of the Chemical Engineering Practice School (ChEPS) at King Mongkut’s University of Technology Thonburi (KMUTT) since 1997. Saranya received her undergraduate degree in chemical engineering and a Master’s degree in biotechnology from the School of Bioreources and Technology, both from KMUTT. She is currently a doctorate candidate in the School of Chemical Engineering at the University of Queensland in Brisbane, Australia. Her research focuses on a comparative study in Work-Integrated Learning (WIL) in chemical engineering between Australia and Thailand.

Patrick Troy (Head of Human Resources and Industrial Relations, BAM Contractors Ltd, Ireland) Patrick is an experienced HR leader with a proven ability to lead the implementation of systems, policies
and processes and also to drive cultural and organisational change. He proactively pursues a partnership approach with the operational side of the business to achieve company objectives. Patrick is highly-experienced in industrial relations, negotiations and employment legislation.

**John Wall** (Head of School of Education, Waterford Institute of Technology, Ireland) John is also the Programme Director for the MSc in Construction Project Management. He is currently continuing that role while on secondment as Head of the School of Education. John has a number of research interests including ‘The use of technology in the delivery of lifelong learning in the construction industry’, ‘Marketing in construction organisations’ and ‘Project Management in Construction.’ Through his research and education activities John has developed a wide range of contacts with industry and higher education providers in Ireland and overseas, including a visiting professorship at Queensland University of Technology in Australia.