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Refereed Scholarly Journal Articles

“Intellectual Property and SMEs ... What’s the State of Play?” *World Patent Information*. Under review, 5 May 2025. Christopher T. Lohrey & Kelvin W. Willoughby.

“Innovation, Patenting and National Economic Development: A Fresh Look at the Evidence,” *Technology in Society*. Under review, 1 January 2025. Nadezhda I. Mullina, Kelvin W. Willoughby & Cecilia Anthony Das.

“The Effective Use of Artificial Intelligence in Patent Searches: Case Study in Using AI-based Classifiers to Identify AI Inventions,” *World Patent Information*. Under review, 21 January 2025. Aleksei L. Kalinichenko and Kelvin W. Willoughby.

“The Middle Way: A Disciplined Approach to International Patenting Strategies,” *Journal of Entrepreneurship and Innovation in Emerging Economies*. Under review, 19 October 2024. Nadezhda I. Mullina, Dmitry S. Smirnov and Kelvin W. Willoughby.

“Harmful Harmony? On Safe Spaces and Brave Spaces in Gender-Specific Entrepreneurship Education,” *Journal of Business Economics*. Under review, 1 March 2025. Rossitza Ivanova, Kazem Mochkabadi and Kelvin W. Willoughby.

“The Coevolution of Corporate Capabilities in Intellectual Property Management and Technological Innovation,” *European Journal of Innovation Management*. Accepted for publication, 12 July 2024. Punyapat Saksupapchon, Kelvin W. Willoughby & Alistair F. Scott.
<https://doi.org/10.1108/EJIM-09-2023-0824>

“A Gamification Approach for Enhancing Older Adults’ Technology Adoption and Knowledge Transfer: A Case Study in Mobile Payments Technology,” *Technological Forecasting and Social Change*, 205 (2024), 123456. Accepted for publication 15 May 2024. Siyang An, Chi Fai Cheung & Kelvin W. Willoughby.
<https://doi.org/10.1016/j.techfore.2024.123456>

“How Can Business Schools Generate and Appropriate Value in University-based Technological Innovation?” *International Journal of Innovation and Technology Management*, 20, 8 (2023) 2350052 (58 pages). Dmitry S. Smirnov & Kelvin W. Willoughby.
<https://doi.org/10.1142/S0219877023500529>

“Different Settings, Different Terms and Conditions: The Impact of Intellectual Property Arrangements on Co-creation Project Performance,” *The Journal of Product Innovation Management*, 40, 5 (2023), 679-704. Anja Tekic, Kelvin W. Willoughby & Johann Füller.
<https://doi.org/10.1111/jpim.12668>

Professor Kelvin W. Willoughby: List of Publications

“Global Innovation and Competition in Quantum Technology, Viewed Through the Lens of Patents and Artificial Intelligence,” *International Journal of Intellectual Property Management*, 13, 1 (2023), 40-61. Zeki Can Seskir & Kelvin W. Willoughby.
<https://doi.org/10.1504/IJIPM.2021.10044326>

“Mapping the Development of Corporate Intellectual Property Capabilities: A Framework for Large Complex Technological Organizations,” *Research-Technology Management*. Revise and resubmit, 10 April 2024. Punyapat Saksupapchon, Kelvin W. Willoughby & Alistair Scott.

“Product Modularity, Design Imitation and Intellectual Property: Creating Value Through Patent Strategy,” *IEEE Engineering Management Review* (under review, November 2022). Georgy D. Klushin & Kelvin W. Willoughby.

“Reverse Innovation, International Patenting and Economic Inertia: Constraints to Appropriating the Benefits of Technological Innovation,” *Technology in Society*, Volume 67, November 2021, 101712. Kelvin W. Willoughby & Nadezhda Mullina.
<https://doi.org/10.1016/j.techsoc.2021.101712>

“Rethinking the Dynamics of Innovation, Science, and Technology: The Curious Case of Stirling Engines and Stirling Refrigerators,” *Energy Research & Social Science*, Volume 79, September 2021, 102159. Dmitry S. Smirnov & Kelvin W. Willoughby.
<https://doi.org/10.1016/j.erss.2021.102159>

“Contextual Factors Affecting Patent Licensing Provisions in Collaboration Agreements of Complex Technological Organizations,” *International Journal of Intellectual Property Management*, 11, 3 (2021), 280-315. Punyapat Saksupapchon & Kelvin W. Willoughby.
<https://doi.org/10.1504/IJIPM.2020.10032645>

“Intellectual Property Management, Dynamic Capabilities and Competitive Innovation in the Commercial Aircraft Industry,” *International Journal of Intellectual Property Management*, 11, 3 (2021), 236-262. Punyapat Saksupapchon & Kelvin W. Willoughby.
<https://doi.org/10.1504/IJIPM.2020.10032446>

“Endogenous innovation, outward-bound international patenting and national economic development,” *The Journal of Technology Transfer*, 45, 3 (2020), 844-869. Kelvin W. Willoughby.
<https://doi.org/10.1007/s10961-018-9705-1>

“Product Modularity, Design Imitation and Intellectual Property: The Role of Patent Protection, A Review,” *International Journal of Management Reviews* (under review, February 2022). Georgy D. Klushin & Kelvin W. Willoughby.

“Configuring intellectual property management strategies in co-creation: A contextual perspective,” *Innovation: Organization and Management*, 22, 2 (2020), 128-159. Anja Tekic & Kelvin W. Willoughby.
<https://doi.org/10.1080/14479338.2019.1585189>

“Co-creation – child, sibling or adopted cousin of open innovation?” *Innovation: Organization and Management*, 21, 2 (2019), 274-297. Anja Tekic & Kelvin W. Willoughby.
<https://doi.org/10.1080/14479338.2018.1530565>

“Contextualized co-creation: Innovating with individual external contributors throughout the product life cycle,” *International Journal of Product Development*, 22, 3 (2017), 230-245. Anja Tekic & Kelvin W. Willoughby.
<https://doi.org/10.1504/IJPD.2017.087380>

“A knowledge-based system for assessing and managing intellectual property managerial risks for small-and-medium sized technological enterprises,” *International Journal of Intellectual Property Management*, 7, 1/2 (2014), 57-83. C. F. Cheung, W. M. Wang, X. Xu & Kelvin W. Willoughby.
<https://doi.org/10.1504/IJIPM.2014.062795>

Professor Kelvin W. Willoughby: List of Publications

“What impact does intellectual property have on the business performance of technology firms?” *International Journal of Intellectual Property Management*, 6, 4 (2013), 316-338. Kelvin W. Willoughby.
<https://doi.org/10.1504/IJIPM.2013.057634>

“Intellectual property management and technological entrepreneurship,” *International Journal of Innovation and Technology Management*, 10, 6 (2013), 1340027.
Kelvin W. Willoughby.
<https://doi.org/10.1142/s0219877013400270>

“How much does technology really matter in patent law? A comparative analysis of doctrines of appropriate patentable subject matter in American and European patent law,” *Federal Circuit Bar Journal*, 18, 1 (2008), 63-138.
Kelvin W. Willoughby.

“How do entrepreneurial technology firms really get financed, and what difference does it make?” *International Journal of Innovation and Technology Management*, 5, 1 (2008), 1-28.
Kelvin W. Willoughby.
<https://doi.org/10.1142/s0219877008001266>

“Interorganizational cooperation, knowledge intensity and the sources of innovation in the bioscience-technology industries,” *Knowledge, Technology and Policy*, 18, 3 (2006), 56-73.
Kelvin W. Willoughby & Peter Galvin.
<https://doi.org/10.1007/s12130-005-1005-z>

“Technological semantics and technological practice: Lessons from an enigmatic episode in Twentieth Century technology studies,” *Knowledge, Technology and Policy*, 17, 3-4 (2005), 11-43.
Kelvin W. Willoughby.
<https://doi.org/10.1007/s12130-004-1002-7>

“The Affordable Resources strategy and the Milieux Embeddedness strategy as alternative approaches to facilitating innovation in a knowledge-intensive industry,” *The Journal of High Technology Management Research*, 15, 1 (2004), 91-121.
Kelvin W. Willoughby.
<https://doi.org/10.1016/j.hitech.2003.09.006>

“The virtualization of university education: Concepts, strategies and business models,” *Journal of Applied Educational Technology*, 2, 1 (2004), 4-24.
Kelvin W. Willoughby.

“Building internationally competitive technology regions: The Industrial-Location-Factors approach and the Local-Technological-Milieux approach,” *Journal of International and Area Studies*, 7, 2 (2000), 1-36.
Kelvin W. Willoughby.

“Generic strategies and action modes: A philosophical challenge for strategic management,” *Journal of International Business and Economy*, Fall (2000), 69-90.
Kelvin W. Willoughby.

“Informal communication, formal collaboration, and the growth of research-intensive entrepreneurial firms in the biotechnology industry,” *Frontiers of Entrepreneurship Research*, November (1999), 571-585.
Kelvin W. Willoughby.

“The economic potential of biotechnology,” *International Journal of Technology Management, Biotechnology Review*, 1 (1993), 7-10.
Kelvin W. Willoughby & E. J. Blakely.

“The economic-development potential of California's biotechnology industry,” *International Journal of Technology Management, Biotechnology Review*, 1 (1993), 11-27.
Kelvin W. Willoughby, E. J. Blakely & N. Nishikawa.

Professor Kelvin W. Willoughby: List of Publications

"Transfer or generation? Biotechnology and local industry development," *Journal of Technology Transfer*, 15, 4 (1990), 31-38.

Kelvin W. Willoughby and E. J. Blakely.

<https://doi.org/10.1007/BF02371521>

[Awarded Gold Medal by the Technology Transfer Society for best paper published in the *Journal of Technology Transfer*, 1990-1991.]

"Local enterprise initiatives: Between state and market in Esperance," *Australian Journal of Public Administration*, 49, 1 (1990), 23-37.

Kelvin W. Willoughby & J. Moon.

<https://doi.org/10.1111/j.1467-8500.1990.tb02249.x>

"Economic development and technological change in rural Australia: Some critical policy issues," *Berkeley Planning Journal*, 4, 1 (1989), 53-82.

Kelvin W. Willoughby.

<https://doi.org/10.5070/BP34113158>

"Prospects for appropriate technology: Clues from the philosophy of E.F. Schumacher," *International Journal of Environmental Education and Information*, 4, 1 (1985), 54-82.

Kelvin W. Willoughby.

Books / Monographs

Kelvin W. Willoughby, *What Can Be Patented? Confronting the Confusion in Patent Law About Patent-Eligible Subject Matter* (Saarbrücken: Scholars' Press, 2014). 216 pages. ISBN: 978-3-639-70068-8.

Kelvin W. Willoughby, *Technology Choice: A Critique of the Appropriate Technology Movement* (London: Routledge, 2019). ISBN 9780367289690 (Hardback), 9780429308444 (eBook). 350 pages. First edition: (Boulder and San Francisco: Westview Press, 1990). ISBN: 0813378060.

Kelvin W. Willoughby, *Technology and the Competitive Advantage of Regions: A Study of the Biotechnology Industry in New York*, IURD Monograph No. 44 (Berkeley: University of California, 1993). 184 & xxii pages. Library of Congress (US), LC Control No.: 93622391.

Kelvin W. Willoughby & J. Moon (coauthors), *An Evaluation of Local Enterprise Initiatives: The Case of Esperance* (Canberra: Australian Government Publishing Service, 1989). 48 pages. ISBN: 0644087617.

Kelvin W. Willoughby, *Technology for Employment Creation*, Second Edition (Fremantle & Sydney: APACE Publications, 1985). ISBN 0959030913.

Zhouying Jin (author), Kelvin W. Willoughby (editor & co-translator) & Ying Bai (co-translator), *Global Technological Change: From Hard Technology to Soft Technology*, Second Edition (Bristol, UK; Portland, Oregon, USA: Intellect Books, 2011). 366 pages. ISBN: 9781841503769.

Zhouying Jin (author) & Kelvin W. Willoughby (editor & co-translator), *Global Technological Change: From Hard Technology to Soft Technology*, First Edition (Bristol, UK; Portland, Oregon, USA: Intellect Books, 2005). 317 pages. ISBN: 9781841501246.

Kelvin W. Willoughby & Edward J. Blakely (editors), *The Management and Economic Potential of Biotechnology* (Geneva: Inderscience Enterprises Ltd., 1993). 191pages. ISBN: 0907776122. Library of Congress (US), LC Control No.: 93622391.

Book Chapters and Sections in Books

Kelvin Willoughby and Peter Karl Kresl, "Cities as Innovation Spaces: Smart Infrastructure Hub Meetup," pp. 122-143 of *City Innovation in a Time of Crisis*, ed. Peter Karl Kresl (Cheltenham UK: Edward Elgar, 2024). <https://doi.org/10.4337/9781035327980.00012>

Professor Kelvin W. Willoughby: List of Publications

Kelvin W. Willoughby, "Les niches technologiques," pp. 74-83 of *Une anthologie pour comprendre les Low-Tech*, dirigée per Clément Gaillard (Postface Philippe Bihouix) (Paris: T&P Publishing, 2023). ISBN: 979-10-95513-20-9.

Kelvin W. Willoughby, "What Can Be Patented? Technological Innovation and the Contemporary Mess in Patent Law," pp. 171-178 of ИНТЕЛЛЕКТУАЛЬНЫЕ ПРАВА: ВЫЗОВЫ 21-го ВЕКА, Материалы Международной конференции, 14-16 ноября 2019 г., Под редакцией Э.П. Гаврилова, С.В. Бутенко (Томск: Издательский Дом Томского государственного университета, 2019). DOI:10.17223/9785946218559/26

Kelvin W. Willoughby, "Gifted Education, Scientific Research and Technological Innovation: The Philosophy and Practice of Skoltech," in *The 1st Thai-Russian Roundtable (TRRT): Collaboration on Gifted Education and Research* (Bangkok: Office of the Education Council, Kingdom of Thailand, 2018) pages 57-66.

Maximilian von Zedtwitz, Zeljko Tekic and Kelvin W. Willoughby, "Foreign R&D Investment in Russia: How to Translate into Innovation?" in *The Life of Russian Business: (Re)cognizing, (Re)activating and (Re)configuring Institutions*, edited by Tomas Casas i Klett and Yuliya Ponomareva (Information Age Publishing Inc., 2018), pages 141-146.

Kelvin W. Willoughby, Preface, *A Problem-based Approach for Management Education: Preparing Managers for Action*, P. Hallinger & E. M. Bridges (Berlin: Springer, 2007).

Kelvin W. Willoughby, "Technological semantics and technological practice: Lessons from an enigmatic episode in Twentieth Century technology studies," in *Theory of Technology*, edited by David Clarke (New Brunswick, NJ: Transaction Publishers, 2005), pages 150-180.

Kelvin W. Willoughby, "The local milieux of knowledge-based industries: What can we learn from a regional analysis of commercial biotechnology," in *Cities in Competition: Productive and Sustainable Cities for the 21st Century*, edited by J. Brotchie, M. Batty, E. Blakely, P. Hall, & P. Newton (London: Longman; Melbourne: Longman Australia, 1995), pages 252-285.

Kelvin W. Willoughby, "The 'Kingdom of Camelot'* and the Quest for the 'Holy Grail'# ('our place') (#'global technological competitiveness')," in *Local Matters: Perspectives on the Globalisation of Technology*, edited by John Phillimore (Perth, Aust.: Murdoch University, Institute for Science and Technology Policy, 1995), pages 129-136.

Kelvin W. Willoughby & U. E. Gattiker, "Technological competence, ethics and the global village: Cross-national comparisons for organization research," in *Handbook of Organizational Behavior*, edited by R. Golembiewski (New York & Basel: Marcel Dekker, 1993), pages 457-485.

Kelvin W. Willoughby & A. Morkel, "Orbital Engine Company," in *The Strategy Process: Contexts and Cases*, edited by James Brian Quinn and Henry Mintzberg (Englewood Cliffs, NJ: Prentice Hall, 1993), pages 309-323. [third published version of case] Republished in 3rd Edition (1999).

Kelvin W. Willoughby & Bernard Wong, "Orbital Engine Company Pty Ltd," in *Australian Strategic Management*, edited by G. Lewis, A. Morkel, and G. Hubbard (New York: Prentice Hall, 1993), pages 596-612. [second published version of case]

Kelvin W. Willoughby & Bernard Wong, "Orbital Engine Company Pty Ltd," in *Cases in Australian Strategic Management*, edited by G. Lewis, A. Morkel, and G. Hubbard (New York: Prentice Hall, 1991), pages 319-334. [first published version of case]

Kelvin W. Willoughby & Bernard Wong, "Delta West Ltd," in *Australian Strategic Management*, edited by G. Lewis, A. Morkel, and G. Hubbard (New York: Prentice Hall, 1993), pages 580-595. [second published version of case]

Professor Kelvin W. Willoughby: List of Publications

Kelvin W. Willoughby & Bernard Wong, "Delta West Limited," in *Cases in Australian Strategic Management*, edited by G. Lewis, A. Morkel, and G. Hubbard (New York: Prentice Hall, 1991), pages 240-255. [first published version of case]

Kelvin W. Willoughby, Review of the contributions of Dr Keith R. Roby in the field of technology studies, in Barns, I. (ed), *Challenges for Einstein's Children: Keith Roby's Vision of Science in Community Life* (Perth: Murdoch University, 1984), pages 111-113.

Published Working Papers or Occasional Papers

Kelvin W. Willoughby, "Intellectual Property Management and Technological Entrepreneurship: One Size Does Not Fit All," Working Paper, Entrepreneurship Research and Policy Network (ERP), Social Sciences Research Network (June 13, 2010). Available at SSRN: <http://ssrn.com/abstract=1630666>

Alejandra Castenada, Stéphane A. Dassonville, Tim Heitmann, Marc Mimler, and Kelvin W. Willoughby, "Compatibility and Standards: Should Apple Open Up Its 'Fairplay' DRM System?" EIPIN Team Reports, Working Paper 4 (2008), Berkeley Electronic Press. <http://www.bepress.com/ndsip/eipin/art4>.

Kelvin W. Willoughby, "The Virtualization of University Education: Concepts, Strategies and Business Models," *Instructional Technology Forum*, Discussion Paper #75, September 15-19, 2003. <http://it.coe.uga.edu/itforum/paper75/paper75.html>

Kelvin W. Willoughby & E. J. Blakely, *The Economic Geography of Biotechnology in California*, Working Paper No. 90-176, Center for Real Estate and Urban Economics, Institute for Business and Economic Research, University of California at Berkeley, February 1990. 56 pages.

Kelvin W. Willoughby & E. J. Blakely, *Choosing a Strategy for Local Industry Development from Biotechnology: Transfer or Incubate?* Working Paper No. 520, May 1990, Institute of Urban and Regional Development, University of California at Berkeley. 35 pages.

Kelvin W. Willoughby & E. J. Blakely, *Making Money from Microbes: Finance and the California Biotechnology Industry*, Working Paper No. 89-166, Center for Real Estate and Urban Economics, Institute for Business and Economic Research, University of California, Berkeley, August 1989. 75 pages.

Kelvin W. Willoughby, *Technological Change and the Rural Economy: Lessons from Down Under*, Working Paper No. 495, March 1989, Institute of Urban and Regional Development, University of California, Berkeley. 37 pages.

Kelvin W. Willoughby & A. Pecotich, *The Ambiguous Status of Science and Technology: A Study of Management Attitudes and Public Policy in Australia*, IGS Working Paper No. 89-9, April 1989, Institute of Governmental Studies, University of California, Berkeley, 41 pages.

Published Technical Monographs, Industry Reports and Government Reports

Kelvin W. Willoughby, *Minnesota's Competitive Position in the BioBusiness Technology Industries*. St. Louis Park, MN: BioBusiness Alliance of Minnesota, 2011. 92 pages.

Christoph Ann (principle author), Kelvin W. Willoughby (collaborative author / Mitarbeiter) & Stephanie Bergmann (collaborative author/ Mitarbeiter), *Strategien zur Piraterieabwehr für den Mittelstand*. München: bayme vbm, Die bayerischen Metall- und Elektro-Arbeitgeber, 2011. 68 pages.

Kelvin W. Willoughby, *Biobusiness: Minnesota's Present Position and Future Prospects*. St. Louis Park, MN: BioBusiness Alliance of Minnesota, 2006. 102 pages.

Kelvin W. Willoughby, *The Competitive Position of Biobusiness Technology Industries in Minnesota within the United States*. St. Louis Park, MN: BioBusiness Alliance of Minnesota, 2006. 77 pages.

Professor Kelvin W. Willoughby: List of Publications

Kelvin W. Willoughby, *Utah Life Sciences Industry Directory* (including Summary of Economic Highlights of Utah's Bioscience Technology Industry). Second Edition. Salt Lake City: Utah Life Science Association, 1999. 80 pages.

Bernd Grohs, Kelvin W. Willoughby, et al., *Untersuchung der Wirkungsmechanismen von Kompetenzzentren am Beispiel ausgewählter Technologieregionen in Deutschland*. Report for Bundesministerium für Bildung, Wissenschaft, Forschung und Technologie, Bonn. Munich: Roland Berger & Partner GmbH, International Management Consultants, 1998. 148 pages.

Kelvin W. Willoughby, *Utah's Bioscience Technology Industry Complex: A Census and Analysis of the Biotechnology, Medical Technology, and Life Systems Technology Industries in the State of Utah*. Salt Lake City: Utah Life Science Association & State of Utah, Division of Business and Economic Development, 1998. 161 & xxvi pages.

Kelvin W. Willoughby, *New York's Evolving Bioscience Technology Industries: Managing Knowledge, Production and Services for Economic Development*. Stony Brook, New York: State University of New York, Center for Biotechnology, 1997. 161 pages.

Kelvin W. Willoughby, *Biotechnology in New York: A Global Industry in a Global Community*. Stony Brook, New York: State University of New York, Center for Biotechnology, 1992. 190 & xii pages.

Kelvin W. Willoughby, T. K. Bradshaw & E. J. Blakely, *Controlling Urban Growth in Rural California: What is Happening in the Central Valley?* Central Valley Briefs #4, January 1990, University of California Agricultural Issues Center, University of California, Davis. 6 pages.

Kelvin W. Willoughby & T. K. Bradshaw, *Implications of Changing Employment Patterns in the Central Valley*, Central Valley Briefs #1, July 1989, University of California Agricultural Issues Center, University of California, Davis. 4 pages.

Kelvin W. Willoughby, Summary of Conference Deliberations on Employment in the California Central Valley, Proceedings of Conference, "Growth and Change in the Great Central Valley: People and Agriculture," June 3rd 1989, Agricultural Issues Center, University of California, Davis.

Kelvin W. Willoughby & E. J. Blakely, *California Biotechnology Industry Profile*, Biotechnology Industry Research Group, University of California, Berkeley, November 1988. 4 pages.

Kelvin W. Willoughby, *Technology, Agriculture and Regional Development: Choosing a Future for Western Australia* (Perth, WA: Technology and Industry Development Authority, Government of Western Australia, 1988), 70 pages.

Kelvin W. Willoughby, *Aboriginal Communities and Technology: A Role for the Government of Western Australia?* (Perth: Western Australian Science, Industry and Technology Council, 1988). 7 pages.

Kelvin W. Willoughby, A. Bollard & D. Annandale, *Technology Choice for Employment Generation*. (Perth: Government of Western Australia [W.A. Science, Industry and Technology Council, and Department of Employment and Training], 1987). 208 pages. (Chairman of project and editor of Report by consultants).

Kelvin W. Willoughby, *Continuing Education in Dentistry: A Needs Assessment for Western Australia*, Report of an empirical research project for the Postgraduate Dental Education Committee, University of Western Australia, August 1986, 33 pages.

Business Cases (Mimeographed)

Kelvin W. Willoughby, *Western Biotechnology Limited*. Graduate School of Management, The University of Western Australia, November 1989.

Professor Kelvin W. Willoughby: List of Publications

Other Reports

Kelvin W. Willoughby, *Strategies for Solving the Problems of Backlog and Unreliable Examination Quality in the Global Patent System: An Outline of a Systematic and Quantitative Strategic Approach to Analyzing an Array of Potential Solutions to the Problems*. Working Paper, Munich Intellectual Property Law Center, Munich, 28 December 2008.

Kelvin W. Willoughby, Tim Heitmann, Marc Mimler, Stéphane Dassonville & Alejandra Castañeda Andrade, *Should Apple Open Up Its 'FairPlay' DRM System? Untangling the Knot of Copyright and Competition Law for Online Businesses*. Working Paper prepared for the 2007-2008 Congress of EIPIN (the European Intellectual Property Institutes Network), held in Gerzensee (Switzerland), Strasbourg (France) and Windsor (United Kingdom), March 2008. 27 pages.

Kelvin W. Willoughby & Kevin Michael Permenter, *Issues in Planning for Education and Training in Technology Transfer for Federal Laboratory Personnel: Insights from Analysis of the FLC Technology Transfer Training Resources Database*. Federal Laboratory Consortium for Technology Transfer, Education and Training Committee, May 2004. 15 pages.

Kelvin W. Willoughby, *Economic Impact of Engineering Education in SUNY on New York State*. College of Engineering and Applied Sciences, State University of New York at Stony Brook, 1999. 14 pages. Revised 2000.

Kelvin W. Willoughby, *Proposal for a Program in the Management of Technology for the University of Utah*. David Eccles School of Business & College of Engineering, University of Utah, Salt Lake City, October 1993, 25 pages.

Kelvin W. Willoughby, *Research Management in the Department of Management*. Department of Management, The University of Western Australia, 14 pages.

Kelvin W. Willoughby, *Employment Creation through the Appropriate Technology Development Strategy*. Report to the Technology Directorate of the Government of Western Australia, June 1984, 208 pages.

Conference Papers

Manisha Mozumder, Kelvin W. Willoughby, Martin A. Bader, and Sevim Süzeroğlu-Melchioris, "Managing Intellectual Property Along the Development Pathway of Startups," *R&D Management Conference 2024*, Transforming industries through technology, KTH Royal Institute of Technology, Stockholm, Sweden, 17-19 June 2024.

Nadezhda I. Mullina, Kelvin W. Willoughby, Max von Zedtwitz, and Mette Præst Knudsen, "Identifying the Mechanisms for Translating Economic Benefits from International Patenting into National Wealth," *R&D Management Conference 2024*, Transforming industries through technology, KTH Royal Institute of Technology, Stockholm, Sweden, 17-19 June 2024.

Punyapat Saksupapchon and Kelvin Willoughby, "The Coevolution of Intellectual Property Capabilities and Technology Capabilities in Large Complex Technological Organizations," *2022 IEEE International Conference on Industrial Engineering & Engineering Management (IEEM2002)*, Kuala Lumpur, Malaysia, 7-10 December 2022. (accepted paper IEEM22-A-0096)

Aleksei Kalinichenko and Kelvin Willoughby, "The Concept of Artificial Intelligence Viewed Through the Prism of Patent Information," *EPIP 2022 Conference*, The University of Cambridge, 14-16 September 2022, Cambridge, UK. (accepted, June 2021)

Punyapat Saksupapchon and Kelvin Willoughby, "Mapping the Development of Corporate Intellectual Property Capabilities: A Framework for Large Complex Technological Organizations," *EPIP 2022 Conference*, The University of Cambridge, 14-16 September 2022, Cambridge, UK. (accepted, June 2021)

Professor Kelvin W. Willoughby: List of Publications

Dmitry Smirnov and Kelvin Willoughby, "How Can Business Schools Generate Value in the Commercialization of New Technology? Technological Innovation Laboratories and Intellectual Property Management as Leadership Channels for Business Schools," *EPIP 2022 Conference*, The University of Cambridge, 14-16 September 2022, Cambridge, UK. (accepted, June 2021)

Si Yang An, Chi Fai Cheung, Mei Na Cheng and Kelvin W. Willoughby, "A Roadmap of Information and Communication Technology-Oriented Product-Service Systems for Older Adults in Hong Kong," *IEEE 2021 9th International Conference on Information and Education Technology (ICIET 2021)*, Okayama, Japan, March 27-29, 2021. Paper ID C068. Accepted for publication in *IEEE Explore* on 10 February 2021.

Kelvin W. Willoughby and Nadezhda Mullina, "Intellectual Property Strategy and Reverse Innovation," 81st Annual Meeting of the Academy of Management, virtual meeting, 30 July-3 August 2021. (accepted, May 2021)

Zeki Can Seskir and Kelvin W. Willoughby, "An Approach to AI-Enhanced Patent Analysis for Emerging Advanced Technology Industries: Insights from the Domain of Quantum Technology," 81st Annual Meeting of the Academy of Management, virtual meeting, 30 July-3 August 2021. (accepted, May 2021)

Dmitry S. Smirnov and Kelvin W. Willoughby, "What Comes First, Technology or Science? Clues from the Field of Energy Conversion Technology," 81st Annual Meeting of the Academy of Management, virtual meeting, 30 July-3 August 2021. (accepted, May 2021)

Nadezhda Mullina & Kelvin W. Willoughby, "Are Exports an Indicator of Innovation Flows?" *ISPIM Connects Global 2020: Celebrating the World of Innovation - Virtual Conference*, 6-8 December 2020. Event Proceedings: LUT Scientific and Expertise Publications: ISBN 978-952-335-566-8

Punyapat Saksupapchon & Kelvin W. Willoughby, "The Evolution of Patent Application Strategies of Companies in Commercial Aircraft Industry Through a Dynamic Capability Lens," Paper for the *IEEE 4th Technology Innovation Management and Engineering Science International Conference (TIMES-iCON 2019)*, Faculty of Engineering, Mahidol University, Bangkok, Thailand, 11-13 December 2019.

Punyapat Saksupapchon & Kelvin Willoughby, "Contextual Factors Affecting Decisions About Intellectual Property Licensing Provisions in Collaboration Agreements for Open Innovation Projects of Complex Technological Organizations," *2019 IEEE International Symposium on Innovation and Entrepreneurship (TEMS-ISIE)*, Hangzhou, China, 24-26 October 2019.

Kelvin W. Willoughby & Nadezhda Mullina, "Global Innovation, Outbound International Patenting and Emerging Countries," Paper for *R&D Management Conference*, Research and Development Management Association, École Polytechnique and HEC Paris, Paris, France, 17-21 June 2019.

Anja Tekic & Kelvin W. Willoughby, "Intellectual property management in co-creation: Exploring the value of contextual and configurational perspectives for the development of strategy by employing the Qualitative Comparative Analysis methodology," Paper for the *79th Annual Meeting of the Academy of Management*, Boston, USA, 9-13 August 2019.

Anja Tekic & Kelvin W. Willoughby, "Construing the conceptual mess around co-creation: An Innovation Management Perspective," Paper for the *24th Innovation and Product Development Management Conference (IPDMC)*, Reykjavik University, Iceland, 11-13 June 2017.

Anja Tekic & Kelvin W. Willoughby, "Co-creation and open innovation: Related but distinct concepts in innovation management," Paper for the *R&D Management Conference 2016 From Science to Society: Innovation and Value Creation*, Cambridge University, United Kingdom, 3-6 July 2016.

Anja Tekic & Kelvin W. Willoughby, "The strategic coupling of intellectual property management and co-creation strategies," Paper for the *23rd Innovation and Product Development Management Conference*, Glasgow, United Kingdom, 12-14 June 2016.

Kelvin W. Willoughby and Alexander Vidiborskiy, "Technological Innovation, International Patenting and National Economic Development: A Multinational Multi-year Study," *INFORMS (Institute for Operations*

Professor Kelvin W. Willoughby: List of Publications

Research and the Management Sciences) 2016 Annual Meeting, Nashville, Tennessee, November 13-16, 2016.

Kelvin W. Willoughby, "What impact does intellectual property have on the business performance of technology firms?" INFORMS (Institute for Operations Research and the Management Sciences) 2014 Annual Meeting, San Francisco, California, November 8-12, 2014.

Kelvin W. Willoughby, "Intellectual Property and Open Innovation: Friends or Foes?" Paper from Invited Lecture, 12th Annual Triple Helix International Conference, Tomsk, Russia, 11-13 September 2014.

Kelvin W. Willoughby, "The Rise of Regional Bioscience-Technology Industries in the United States" Paper from Invited Lecture, 12th Annual Triple Helix International Conference, Tomsk, Russia, 11-13 September 2014.

"Intellectual Property and Technology Start-ups: Size Matters," INFORMS (Institute for Operations Research and the Management Sciences) 2012 Annual Meeting, Phoenix, Arizona, October 14-17, 2012.

"Standing Apart in the Crowd: Alternative Pathways for Economic Development in Minnesota through BioBusiness," Economic Development Association of Minnesota, 2006 Winter Conference, Minneapolis, January 19-20, 2006.

"How do entrepreneurial technology firms really get financed, and what difference does it make?" Paper for the Annual Meeting of the United States Association for Small Business and Entrepreneurship, Tucson, Arizona, January 12-15, 2006.

Kelvin W. Willoughby, "Four Heterodox Ideas about Technology and Economic Development," Paper presented to the International Association for Management of Technology, Annual Conference, Vienna, Austria, May 2005.

Kelvin W. Willoughby and Edgar C. Harrell, "Networking: The Key to Strong Performance in Technology Incubators," Paper presented to the International Association for Management of Technology, Annual Conference, Vienna, Austria, May 2005.

Kelvin W. Willoughby, "The 'Affordable-Resources' strategy and the 'Milieux-Embeddedness' strategy as alternative approaches to growth for entrepreneurial firms in the biotechnology industry," Paper, Academy of Management Conference, August 2000, Toronto, Canada.

Kelvin W. Willoughby, "Alternative strategies for success in technology incubators: Evidence from Maryland, New York, California, Utah and Australia," National Business Incubator Association, National Conference, Cleveland, Ohio, May 2000 (with E. Harrell).

Kelvin W. Willoughby, "Informal Communication, Formal Collaboration, and the Growth of Research-Intensive Entrepreneurial Firms in the Biotechnology Industry," Paper presented to the 1999 Babson College/Kauffman Foundation Entrepreneurship Research Conference, University of South Carolina, Columbia, May 12-15, 1999.

Kelvin W. Willoughby, "Strategies for Interorganizational Activity in Industrial-Technological Networks: Communication and Collaboration in Commercial Biotechnology," Paper presented to Thirteenth International Conference of the Strategic Management Society, Chicago, Illinois, September 12-15, 1993.

Kelvin W. Willoughby, "Innovative Milieux and the Role of Knowledge Based Industries," Paper presented to Fourth International Workshop on Technological Change and Urban Form, CIB W72, University of California at Berkeley, April 14-16, 1993.

Kelvin W. Willoughby, "Biotechnology and Economic Development in New York State," Paper presented to 2nd Annual Meeting of New York State Network for Economic Research, Nelson A. Rockefeller Institute of Government, State University of New York. Albany, New York, 26th September, 1991.

Professor Kelvin W. Willoughby: List of Publications

Kelvin W. Willoughby, "The Regional Form of Advanced Technology Industries: Clues from the Case of Biotechnology in California," Paper presented to the 30th North American Meeting of the Regional Science Association, Santa Barbara, California, November 10-12, 1989.

Kelvin W. Willoughby, Report of Workshop on "Science, Technology and People-oriented Development Processes," University of Philippines (Quezon City), Manila, December 1983, in Yuzon, L.A. (ed), *Towards an Asian Sense of Science and Technology* (Singapore: C.C.A., 1984), pages 173-177.

Kelvin W. Willoughby, Report of Workshop on "Appropriate Technology for Australia" (chaired by K. Willoughby), University of Melbourne, December 1983, in Ledger, C. (ed), *1984 and Beyond*, (Sydney: Australian Council of Churches, 1984), pages 80-82.

Kelvin W. Willoughby, (Contributor, pages 85-86) "New Approaches to Environmental Assessment," paper by D.C. O'Connor in *Environmental Impact Assessment and Procedures*, Proceedings of public seminar organized by the Department of Conservation and Environment, July 1983 (Perth: Government of Western Australia, 1983), pages 83-102.

Kelvin W. Willoughby, "Appropriate Technology: an outline of the concept using the philosophy and practice of E.F. Schumacher," Paper presented to E.F. Schumacher Memorial Conference, Macquarie University, Sydney, December 1982, 21 pages.

Kelvin W. Willoughby, "Appropriate Technology for Australian Industry: a challenge to philosophical analysis and policy formulation," Paper presented to Section 37 (History, Philosophy & Sociology of Science) of the 52nd ANZAAS Congress, Australia's Industrial Future, Macquarie University, Sydney, May 1982, 42 pages.

Kelvin W. Willoughby, "Social Responsibility Towards the Natural Environment," Seminar #3, ANZAAS Seminar Series: Social Responsibilities of Scientists and Professionals, The University of Western Australia, 19th August 1981.

Invited Lectures and Guest Seminar Presentations

Invited Keynote Lecture, *2nd Thailand Entrepreneurship Education Forum*, Thailand Entrepreneurship Education Network (TEEN), Bangkok, Thailand, 7 September 2023.
Topic: "Entrepreneurship Education and the Art of Teaching."

Invited Keynote Lecture, *2nd Thailand Entrepreneurship Education Forum*, Thailand Entrepreneurship Education Network (TEEN), Bangkok, Thailand, 8 September 2023.
Topic: "Intellectual Property (IP) Management for Entrepreneurial Ventures."

Invited Seminar Presentation: *Suranaree University of Technology*, Nakhon Ratchasima, Thailand, 11 September 2023. Technopolis and IP Management Division, SUT.
Topic: "The Relevance of IP for Research Utilization under Thailand's TRIUP Act."

Inaugural Professorial Lecture, *Stiftungsfonds Deutsche Bank Chair of Innovation Management and Entrepreneurship*, HHL Leipzig Graduate School of Management, Leipzig, Germany, 8 June 2023.
Topic: "Strategic Management of Intellectual Property: A Key to Success in Contemporary Business."

Guest lecturer: *Global Strategy, Technology and Innovation* course, LA F22 BINBO1144U, Copenhagen Business School, Department of International Economics, Government and Business, 25 April 2022.
Topic: "Global Intellectual Property Management."

Guest lecturer: *Global Strategy, Technology and Innovation* course, LA F22 BINBO1144U, Copenhagen Business School, Department of International Economics, Government and Business, 26 April 2022.
Topic: "International Technology Transfer."

Professor Kelvin W. Willoughby: List of Publications

HHL Expert Talk, *HHL Leipzig Graduate School of Management*, Leipzig, Germany, 6 April 2022.
Topic: “Local Entrepreneurship, Global Innovation and Intellectual Property Strategy.”
<https://www.hhl.de/event/hhl-expert-talk-local-entrepreneurship-global-innovation-intellectual-property/>

Invited Public Lecture, *Stiftungsfonds Deutsche Bank Chair of Innovation Management and Entrepreneurship*, HHL Leipzig Graduate School of Management, Leipzig, Germany, 15 September 2021.
Topic: “Managing Technological Innovation and Entrepreneurship: Challenges for Practice and Research, Viewed Through the Lens of Intellectual Property.”

Invited HHL Alumni Lecture, *Refresh at HHL*, HHL Leipzig Graduate School of Management, Leipzig, Germany, 26 August 2021.
Topic: “Innovation and Intellectual Property: Leadership and Management Challenges.”

Keynote speaker, *First GBA (Greater Bay Area, China) International Summit on Intellectual Property and Technology Transfer*, Xi'an Jiatong-Liverpool University, Nansha Guangzhou, China, 31 May 2021.
Topic: “Endogenous Innovation, Outward-bound International Patenting and National Economic Development: China and the World”

Invited speaker, *International Conference, “Intellectual Rights: Challenges of the 21st Century,”* Tomsk State University, National Research University, Tomsk, Russia, 14-16 November 2019.
Topic: “Endogenous Innovation, Outward-bound International Patenting and National Economic Development”

Invited speaker, *International Conference, “Intellectual Rights: Challenges of the 21st Century,”* Tomsk State University, National Research University, Tomsk, Russia, 14-16 November 2019.
Topic: “What Can Be Patented? Technological Innovation and the Contemporary Mess in Patent Law”

Invited speaker, *Skolkovo IP Academy (IP Академия Сколково)*, Technopark, Skolkovo, Moscow, Russia, 18-20 September 2019. Master Class.
Topic: “Universities, Intellectual Property and Global Technological Innovation”

Invited speaker, *National Science and Technology Agency, Kingdom of Thailand*, Thailand Science Park, Bangkok, 21 January 2019.
Topic: “Fostering Linkages Between Research and Education with Innovation and Entrepreneurship”

Invited speaker, *Skolkovo Patent School (Патентная Школа Сколково)*, Technopark, Skolkovo, Moscow, Russia, 1-2 November 2018. Seminar on Best Practice in Managing Intellectual Property in Universities and Institutes.
Topic: “Raking Leaves in the Wind: Managing University IP in Turbulent Times”

Keynote speaker, *International Conference on Business and Sustainable Development (JCBSD 2018)*, University of Rajshahi, Rajshahi, Bangladesh, 8-9 March 2018.
Topic: “Endogenous Innovation, Outward-bound International Patenting and National Economic Development: What is Happening in Asia?”

Keynote speaker, *China Intellectual Property Conference*, Nanjing University of Science and Technology, College of Intellectual Property, Nanjing, China, 15-16 December 2017.
Topic: “Endogenous Innovation, Outward-bound International Patenting and National Economic Development: China and the World”

Keynote speaker, *28th DAAAM International Symposium*, Intelligent Manufacturing and Automation, DAAAM International Vienna, Technical University of Vienna & University of Zadar, Croatia, 8-11 November 2017.
Topic: “What is Technology?”

Invited speaker and seminar leader, *National Innovation Agency (NIA)*, Government of the Kingdom of Thailand, Bangkok, Thailand, NIA Innovation Space, 24 January 2017.
Topic: “Intellectual Property Management for Entrepreneurs”

Professor Kelvin W. Willoughby: List of Publications

Invited speaker, *Skoltech Gen-Y Cross Disciplinary Conference for Young Scientists*, Skolkovo Institute of Science and Technology, Rosa Khutor, Sochi, Russia, 27 September to 1 October 2017.

Topic: "Innovation, Intellectual Property and the Creation of Wealth: What's at Stake for Nations and Entrepreneurs?"

Keynote speaker, *7th International Conference on Mass Customization and Personalization in Central Europe (MCP-CE 2016)* and the *1st Regional Conference on Entrepreneurship and Open Innovation (IDEA-lab 2016)*, University of Novi Sad, Novi Sad, Serbia, 20-23 September 2016.

Topic: "Open Innovation and Intellectual Property"

Invited speaker, *Intellectual Property Management Teaching Workshop*, University of Cambridge & Chalmers University; Sponsored by EITIM (European Institute for Technology and Innovation Management), EPO (European Patent Office), UKIPO (U.K. Intellectual Property Office), and WIPO (World Intellectual Property Organization), 16 September 2016.

Topic: "Technology Licensing Games and IP Management Education."

Invited seminar presentation, Rajiv Gandhi School of Intellectual Property Law, Indian Institute of Technology, Kharagpur, India, 19 May 2016.

Topic: "Contemporary Issues in the Law of Patent-eligible Subject Matter in the United States and Europe."

Invited seminar presentation, Rajendra Mishra School of Engineering Entrepreneurship, Indian Institute of Technology, Kharagpur, India, 18 May 2016.

Topic: "Financing Technology Entrepreneurship."

Keynote speaker, Startup Village 2015, Skolkovo Innovation Center, Annual Conference organized by Skolkovo Foundation, Moscow, Russia, 2 June 2015.

Topic: "Why is the Subject of Intellectual Property Important for Startups?"

Invited seminar presentation, John Curtin Institute of Public Policy, Curtin University, Perth, Australia: Policy Forum on the *Next Era of Major Global Technological Innovation*, 17 June 2014.

Topic: "The Biological Nexus of Technological Innovation."

Invited seminar presentation, MIT-Skoltech Innovation Symposium, Skolkovo Innovation Center, Moscow, Russia, 4 June 2014.

Topic: "What Can Be Patented? Technological Innovation and the Contemporary Mess in Patent Law."

Invited seminar presentation, Massachusetts Institute of Technology, Sloan School of Management, Cambridge, Massachusetts, 21 October 2013.

Topic: "Intellectual Property and Technological Entrepreneurship."

Invited Speaker, Innovation Centre WA, Resident Entrepreneur Program, Government of Western Australia, Technology Park, Perth (6 November 2013).

Topic: "Leveraging the Value of Consulting for Technological Entrepreneurship."

Invited Keynote Speaker, Inter-University Summer School for Postgraduate Research Excellence (InSPiRE) [The University of Western Australia, The University of Notre Dame, Murdoch University, Curtin University, Edith Cowan University], Perth, Western Australia, 11-15 February 2013. (Lecture: 14 February 2013).

Topic: "Intellectual Property and the Commercialization of Technical Ideas: Australia, Asia and the Global Knowledge Economy."

Invited Keynote Speaker, Innovation Centre WA, Resident Entrepreneur Program, Government of Western Australia, Technology Park, Perth (13 February 2013).

Topic: "Where Three Rivers Meet ... The Sources of Entrepreneurial Wealth."

Professor Kelvin W. Willoughby: List of Publications

Invited Keynote Speaker, Yangon Technological University, Yangon, Myanmar, Sponsored by the Ministry of Science and Technology of the Republic of the Union of Myanmar (Myanmar/Curtin Symposium). (21 November 2012)

Topic: "Developing Local Capabilities for Entrepreneurship and Innovation."

Invited Keynote Speaker, International Symposium on Trade and Management, Pakse, Lao People's Democratic Republic (Laos) (May 30, 2012).

Topic: "Trading Ideas! Is That Real Business? Asia and the Global Knowledge Economy."

Invited Speaker, International Trade Day Conference of the Export Council of Australia and the Chamber of Commerce and Industry of Western Australia, Perth, Western Australia. (30 August 2012)

Topic: "Trading Ideas! Is That Real Business? Australia and the Global Knowledge Economy."

University-wide lecture: Universidad de Puerto Rico Recinto de Mayagüez, Mayagüez, Puerto Rico. Invited Speaker. (16 August 2012)

Topic: "Appropriate Technology: From Idea to Experiment to Sustainable Practice."

International Symposium on Trade and Management, Ubon Ratchatane, Thailand.

Keynote Speaker. (May 30, 2012)

Topic: "Trading Ideas! Is That Real Business? Asia and the Global Knowledge Economy."

Invited Presentation to the Minnesota State House of Representatives, *Jobs and Economic Development Finance Committee*, State Capitol, St. Paul, Minnesota, USA (15 February 2011).

Topic: "The State of the Biobusiness Economy in Minnesota and the United States."

Invited Presentation to the Minnesota State Senate, *Jobs and Economic Growth Committee*, State Capitol, St. Paul, Minnesota, USA (15 February 2011).

Topic: "The State of the Biobusiness Economy in Minnesota and the United States."

Human Resources Summit—Asia, Sentosa Island, Singapore (GDS International).

Invited Speaker. (June 15, 2011)

Topic: "Flexible Delivery of Management Education in a Complex World of International Business."

BioAsia, 2008 Conference, Bangkok, Thailand.

Invited Speaker. (November 27, 2008)

Topic: "Intellectual Property: Friend or Foe for BioBusiness?"

Global University Network for Innovation - Asia and the Pacific (GUNI-AP), 2006 Conference, Bangkok, Thailand.

Invited Speaker. (November 10, 2006)

Topic: "The Role of Technology Firms in Accelerating Commercialization of Science and Technology in the Asia-Pacific Region."

The Future 500 China 2006 Global Conference, Chinese Academy of Social Sciences, Beijing, China.

Invited Speaker. (October 24, 2006)

Topic: "How Can We Turn the Triple Bottom Line from an Idea in to Reality?"

Federal Laboratory Consortium for Technology Transfer, Annual Meeting, Minneapolis.

Invited Speaker. (May 4, 2006)

Topic: "Opportunities for Education and Training in Technology Transfer."

Curtin University of Technology, Graduate School of Business, Perth, Australia.

Invited Speaker. (March 10, 2006)

Topic: "Alternative Financing Options for Entrepreneurs."

Economic Development Association of Minnesota, 2006 Winter Conference, Minneapolis, Minnesota.

Invited Speaker. (January 19, 2006)

Topic: "Standing Apart in the Crowd: Alternative Pathways for Economic Development in Minnesota through BioBusiness."

Professor Kelvin W. Willoughby: List of Publications

Tsinghua University, School of Economics and Management, Beijing, China.

Invited Speaker. (October 27, 2005)

Topic: "Organizing for Technological Innovation."

The Future 500 China 2005 Conference, Chinese Academy of Social Sciences, Beijing, China.

Invited Speaker. (October 19, 2005)

Topic: "Soft Technology Strategy: A Key to Corporate Citizenship."

The University of Tokyo, Research Center for Advanced Science and Technology, Doctoral Seminar Series in Intellectual Property, Tokyo, Japan.

(July 28, 2005)

Topic: "Intellectual Property Management: Empirical Evidence from the Bioscience Technology Industries in the United States."

Licensing Executives Society, Minneapolis, Minnesota.

Invited Speaker. (July 12, 2005)

Topic: "Networking and the Performance of Knowledge Intensive Firms in Technology Industries."

Minnesota High Technology Association, Spring Conference, Minneapolis.

Invited Speaker. (May 3, 2005)

Topic: "Technology Commercialization and Global Competitiveness."

T2M Horizons Conference, The University of Utah.

Keynote Speaker. (October 1, 2004)

Topic: "Technology and Economic Development."

Edison Conference, The University of Utah.

Panel member. (May 19-20, 2004)

Topic: "Identifying the Market."

Edison Conference, The University of Utah.

Workshop leader. (May 19-20, 2004)

Topic: "Building a better business plan."

National Technology Transfer Center, Wheeling, West Virginia. Entrepreneurial Technology Apprenticeship Program (Sponsored by the Minority Business Development Administration)

(June 25-27, 2003)

Topic: "Technology commercialization careers in a variety of contexts."

Griffith University, Graduate School of Management, Brisbane, Australia.

(January 3, 2003)

Topic: "Alternative strategies for innovation in high technology industries."

Society of Public Accountants, Annual Professional Development Program, Salt Lake City, Utah.

(September 28, 2001)

Topic: "The Surprises of Financing Utah's High Technology Industries."

National Academy of Sciences, Washington, D.C., National Research Council Seminar on "Ways and Means of Science" (seminar on the impact of corporate funding on the conduct of research).

(July 14, 2000)

Topic: "The university-industry complex as a creative milieu for science."

Seoul National University, School of International and Area Studies, Seoul, Korea.

(April 18, 2000)

Topic: "E-commerce Infrastructure and the Development of Cyber-business."

1999 Rocky Mountains Biotechnology Symposium, Salt Lake City.

(January 29, 1999)

Topic: "Utah's Bioscience Technology Industry Complex: Prospects for the New Millennium."

Professor Kelvin W. Willoughby: List of Publications

New York Software Summit, 1999, New York City.
(January 21, 1999)

Topic: "The Shortage of People in Computing-related Professions and Engineering in New York."

Bio '98, Biotechnology Industry Organization, International Biotechnology Meeting, New York City.
(June 17, 1998)

Topic: "Long Island's Biotechnology Industry." (in Panel on regional Clustering of Bioscience Companies)

Roland Berger & Partner / Government of Bavaria, Munich, Germany.
(November 7, 1997)

Topic: "Factors which lead to technology-based economic development in regions."

New York Biotechnology Association, 6th Annual Meeting, New York City.
(October 24, 1996)

Topic: "New York's Biotechnology and Bio-medical Engineering Industries."

Utah Information Technologies Association, Going Global Conference, Salt Lake City, Utah.
(November 21, 1995)

Topic: "Utah's Information Technology Industry: Going Global."

Fourth International Medical Devices Industry Congress, Park City, Utah.
(August 16, 1995)

Topic: "International Business and Biomedical Technology Industry."

Edison Biotechnology Center, Cleveland, Ohio.
(January 20, 1994)

Topic: "Methodological Considerations in the Evaluation of Economic Impacts of Biotechnology Centers."

Case Western Reserve University, Weatherhead School of Management, Cleveland, Ohio.
(January 19, 1994)

Topic: "Strategies for the Local Development of Advanced Technology Industries: Clues from the Case of Biotechnology."

Columbia University, New York City, Graduate School of Architecture, Planning and Preservation.
(December 9, 1993)

Topic: "Technology and the Competitive Advantage of Cities."

Western Australian Technology Studies Society, Inaugural Public Lecture,
Western Australian Technology Park, Bentley.
(March 18, 1993)

Topic: "Technology and the Competitive Advantage of Regions."

New York Biotechnology Association, Inc., Annual Meeting, World Trade Center, New York City.
(September 26, 1991)

Topic: "What's at Stake Here? Can New York Compete in Biotechnology?"

Centre for International Research on Communication and Information Technology, Melbourne, Australia.
(November 1990)

Topic: "Spatial Dimensions of the Information Economy."

Australian Graduate School of Management, The University of New South Wales.
(July 1990)

Topic: "Strategic Issues in the Development of Advanced Technology Industries."

Division of Agriculture and Natural Resources, Office of the President, University of California (System wide).

(June 1990)

Topic: "Is Local Enterprise Development Possible in Rural Areas with Limited Resources?"

Professor Kelvin W. Willoughby: List of Publications

State University of New York at Stony Brook, Center for Biotechnology.
(June 1990)
Topic: "Lessons for New York from California's Biotechnology Industry."

Fordham University, Graduate School of Business Administration, New York City.
(June 1990)
Topic: "Strategic Issues in the Development of Advanced Technology Industries."

The University of Lethbridge, Faculty of Management, Alberta, Canada.
(March 1990)
Topic: "Technology and Regional Economic Development."

Institute of Governmental Studies, University of California at Berkeley, Rural Development Seminar Series. (March 1990)
Topic: "Agriculture, Productivity and Rural Development."

Institute of Governmental Studies, University of California at Berkeley, Faculty Seminar.
(October 1989)
Topic: "Technological Semantics and Technological Practice."

California State University, Stanislaus, Institute of International Studies.
(April 1989)
Topic: "People, Technology and a Sense of Place: Critical Choices in Economic Development."

Fulbright Annual Conference, Asilomar, California. Keynote Speaker.
(March 1989)
Topic: "New Forms of International Collaboration."

Judge and Resource Person, Biotechnology Symposium, Lawrence Hall of Science, University of California at Berkeley. (November 1988)

Prince of Songkla University, Faculty of Management Sciences, Thailand.
(January 1988)
Topics: "Research Methodology" and "Technology Policy and Management."

2nd E. F. Schumacher Memorial Conference, The University of Newcastle, N.S.W.
(November 1986)
Topic: "Technology and Work: Applying Schumacher's Philosophy."

Other Publications

Kelvin W. Willoughby & Kevin Michael Permenter, "Technology Transfer Training Resource Database," Federal Laboratory Consortium for Technology Transfer, USA. (2004)
Online database: <http://www.federalallabs.org/training>

Kelvin W. Willoughby, "Finance and California Biotechnology," *BioWorld*, 2, 47 (March 12, 1990).

Kelvin W. Willoughby, "Appropriate Technology: Will it work?" *Environment WA*, 5, 2 (Autumn 1983), 8-13.

Kelvin W. Willoughby, A review of *Small is Possible*, by George McRobie (London: Abacus, 1982), in *Environment Victoria*, #47 (June/July 1983), 15.

Kelvin W. Willoughby, A series of articles, reviews and commentaries in the national APACE Newsletter (Sydney) and the APACE Western Australia Newsletter (North Fremantle).

Professor Kelvin W. Willoughby: List of Publications

Kelvin W. Willoughby, Submission to the Inquiry into "New Technology and Employment," of the Senate Standing Committee on Science, Technology and the Environment (Hansard, June 1985, pages 1124-1225); incorporated into final report of the Standing Committee. Parliament of the Commonwealth of Australia, Technology Assessment in Australia (Canberra: A.G.P.S., 1987).