Dr. FRED PHILLIPS is currently visiting faculty at SUNY Stony Brook (Colleges of Business and Engineering, and Alan Alda Center for Science Communication). He is the 2017 winner of the Kondratieff Medal, awarded by the Russian Academy of Sciences. He is Vice President of ACIEK, a society of innovation and entrepreneurship scholars, and he coordinates TANDO Institute, a think-tank recently spun out of the University of Texas at Austin. Fred is a Fellow of PICMET, the Portland International Center for Management of Engineering and Technology.

Earlier, Fred taught at University of New Mexico in the USA; was Distinguished Professor at Yuan Ze University in Taiwan; Program Chair at SUNY-Korea; Visiting Scientist at the Chinese Academy of Sciences, Beijing; Vice Provost for Research at Alliant International University; Associate Dean at Maastricht School of Management (Netherlands); and Dean of Management at Oregon Graduate Institute of Science & Technology.

In the USA and overseas, he has been a leader in developing graduate management curricula for employees of international and high-tech companies. His contributions in operations research and statistics include "Phillips' Law" of longitudinal sampling, and the first parallel computing experiments with Data Envelopment Analysis. He is co-recipient of grants totaling \$5 million from the Air Force Office of Scientific Research for the study of Japanese technology management practices. He brought many other grants to IC², OGI, MSM, YZU and Stony Brook, and was co-principal investigator on a \$1 million NSF project,



developing advanced information systems for the US Forest Service. He has won several awards for outstanding research.

Dr. Phillips is Editor-in-Chief Emeritus of Elsevier's international journal Technological Forecasting & Social Change (impact factor 10.884). He authored the textbook Market-Oriented Technology Management (Springer 2001), the popular title The Conscious Manager: Zen for Decision Makers (General Informatics 2003), a book on high-tech economic development, The Technopolis Columns (Palgrave 2006), and What About the Future? (Springer 2019).

In earlier years he held teaching, research, honorary, or management positions at the Universities of Aston and Birmingham in England, General Motors Research Laboratories, Market Research Corporation of America, Battelle-Pacific Northwest National Laboratories, CENTRUM Católica in Peru, Tongji University in Shanghai, and National Chengchi University in Taiwan.

Dr. Phillips has been a consultant to such organizations as Intel, Texas Instruments, and Frito-Lay Inc., and has consulted worldwide on technology based regional development. Through his consulting firm, General Informatics LLC, he and his team have worked on projects for World Bank, UNESCO, and the US Environmental Protection Agency. Fred is a founder of the Austin Technology Council, and was also a Board member for the Software Association of Oregon. He is a popular op-ed columnist and panel member in forums dealing with trends in management, technology, higher education, and economic development.

Dr. Phillips attended The University of Texas and Tokyo Institute of Technology, earning the Ph.D. at Texas (1978) in mathematics and management science. Married to Sue Phillips since 1979 and with two grown daughters, Fred enjoys his mission as an educator. His avocational passions are aikido, travel, and writing.

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FRED YOUNG PHILLIPS, Ph.D.

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Expertise

- *Academic authority*. 130+ refereed articles; many articles and books for managers. Won multi-million-dollar research grants; Awards from national academies of science. Editor-in-Chief of a high-impact journal.
- Successful leadership, organization-building and research management experience in academe and industry.
- Experience managing multinational researchers, multidisciplinary projects, and alliances.
- *Effective communication* in many modes: journal articles, op-eds, web sites, trade magazines, public speaking.
- *Travel/business experience* in Europe, East Asia, Australia, Canada, South Pacific, Mexico, Caribbean, several S. American nations, parts of Africa. *Languages*: Adequate Spanish; rusty French; rudimentary Japanese.

Education

University of Texas at Austin

- Ph.D. Management Science / Operations Research, under Abraham Charnes, UT-Austin, 1978.
- B.A. Mathematics (minor in Computer Science), high honors, UT-Austin, 1972. φβκ, φκφ.

Tokyo Kogyo Daigaku (Tokyo Institute of Technology), Kenkyusei under Prof. Matsuda Takehiko, 1975-76.

Career

2018-2021, Research Lecturer, U. of New Mexico. 2020-2022, Visiting Prof. Tongji University, Shanghai.

2018, Visiting Scientist, Chinese Academy of Sciences. Visiting Prof., National Chengchi University. 2020-23, University of Alcalá.

2020-present, President, TANDO Inc., the extraordinary think-tank/consultancy. www.tando.org .

- 2011-2020, Editor-in-Chief, *Technological Forecasting & Social Change*. Brought Elsevier's international journal to record high impact factor > 10. Now EIC Emeritus.
- 2015-2018 Distinguished Professor, Far Eastern Group Endowed Chair, and Head of International College, Yuan Ze University, Taiwan
 - Key figure in internationalizing YZU and obtaining 5-year AACSB re-accreditation. Mentored young faculty in research and publication skills.

2011-present, Visiting Professor, SUNY Stony Brook

- 2011-2014 Founding Korea Programs Chair, Dept. of Technology & Society, College of Engineering.
- Founded BS, MS, PhD programs at SUNY's Korea campus, attracting outstanding faculty and students.

2006-2011 Vice Provost for Research and Professor of Management, Alliant International University

• Rationalized multi-campus IRBs, increased faculty research output and quality.

2004-2006 Associate Dean and Professor, Maastricht School of Management, Maastricht, Netherlands

- Responsible for accreditation of school; MBA, doctoral, and research programs; strategic positioning; alliances in thirty outreach MBA locations. Won large grant from Limburg Province for China studies.
- 2004-2012 Professor of Marketing, Entrepreneurship, and Research Methods

1995-2004 Professor and Head of the School of Management, and member of the Management Committee, **Oregon Graduate Institute of Science & Technology (OGI,** merged in 2001 with **Oregon Health & Sci. U.)**

- Built M.S. program that Intel, Tektronix, IBM lauded as "best graduate management program in Oregon."
- Launched highly successful Health Care Management certificate program.
- Became preferred distance learning provider to American Electronics Association member companies.
- Built and won accreditation for distance learning program U.S. News & World Report (2001-02) listed in "Best of the Online Grad Programs." Committee for building biomedical engineering program.
- Started department's funded research, executive education, entrepreneurship, distance learning programs.
- 1995-2004 Affiliate Staff Scientist (Courtesy appointment), Battelle-Pacific Northwest National Laboratories

1989-95 University of Texas at Austin

Senior Research Fellow, IC² Institute, 1984-2019. Research Director, IC² Institute, 1989-95. Associate Director (for Informatics Research), Center for Cybernetic Studies, 1989-95 Senior Lecturer, Depts. of Marketing, Management Science/Information Systems, Economics 1989-95

- Coordinated 100+ IC² Institute Fellows including winners of the Nobel Prize, Von Neumann Medal, etc.
 in many scientific fields.
- Prominent roles in the "Austin Experiment" in technology-based economic growth, as teacher, speaker, researcher, author, and founder of organizations including the Austin Technology Council.
- Faculty member in one of top 10 Marketing departments in U.S. (U. of Texas at Austin), 1989-95.

1978-89 Market Research Corporation of America / MRCA Information Services, Stamford, CT Vice President and member of the Management Committee 1986-89

• Performed strategic industry and acquisition analyses. Created an MRCA consulting group, taking profit/ loss responsibility. The Office of the Asst. Secretary of the Army called the group's analysis of recruiting and readiness issues "the most accurate and concise statement of our problem we have ever seen."

Director, Research, Product Development, and Quality Assurance 1978-86

- Pioneer designer of tools and concepts for market research (sampling and data analysis methods, computer packages, educational simulations) used by General Mills, Coca-Cola, Levi-Strauss, other Fortune 500 firms, including DYANA[™], the industry's first interactive system for data-based consumer research.
- Directed marketing-oriented projects for Nabisco, Frito-Lay, Coca-Cola, Levi's, Burlington Mills, etc.
- Technical troubleshooter for client accounts; saved over \$1 million in accounts from termination.
- Authored and successfully evangelized quality control procedures and standards for all operations areas.

Earlier Employment: Visiting Professor at U. of Hawai'i Manoa, 2001-02; St. Edward's U.; General Motors Research Laboratories; Universities of Aston and Birmingham (England); Underwriter's Laboratories, Inc.; Northwestern University.

Academic and Career Honors

- 2022 Named "Provost's Distinguished Fellow," Fulbright University Vietnam.
- MIT Technology Review Global Panel, 2019- ; Research Panel, Dubai Future Foundation, 2020-.
- INEKA (now ACIEK, Academy of Innovation, Entrepreneurship and Knowledge) Medal, 2019.
- Academic Committee, Tsinghua University School of Business & Economics, 2019-22.
- Outstanding Contribution Award, Asia Business Forum / Sustainable Asia Conferences, 2018 and 2019.
- N.D. Kondratieff Gold Medal, awarded by Russian Academy of Sciences, 2017.
- Short-term Visiting Distinguished Professor, Ulsan National Institute of S&T, S. Korea, 2016.
- PICMET Fellow, 2014. WATEF Award for contributions to network science, 2015.
- "On S-Curves and Tipping Points" named among Science Direct's "25 Hottest Articles" for 3Q 2007.
- "Sustainability of Regional Initiatives for Technology Entrepreneurship" selected among "25 Best Abstracts" of 2005, Best Paper Awards Program of the Gate2Growth Academic Network, Directorate General Enterprise of the European Commission under its 5th framework program.
- Ambar/Emerald Management Reviews Hall of Fame, 2004, for the article "Trading Down: The Intellectual Poverty of the New FTAs," *Technological Forecasting & Social Change*, 71-8, October 2004. Each year, Ambar reviews 20,000 articles from the top 400 management journals, and chooses 50 for the Hall of Fame.
- Research award from IAMOT, the International Association for Management of Technology, 2004.
- Nominated (by O.R. pioneer William W. Cooper) for Institute for Operations Research & Management Science (INFORMS) Expository Writing Prize, 2003.
- *Journal of Product Innovation Management* chose the article "The Product is Dead; Long Live the Product-Service" *Research*•*Technology Management* 42(4), 51-56) as a highlight of the 1999 innovation literature.
- IC² Institute award for research in technology commercialization, 1996. Institute Senior Fellow, 1984-2019.
- Society of Actuaries Award for best paper in any of the Society's journals in 1996.
- Member of worldwide teaching standards committee for Aikido Association of America.

Professional Affiliations

• INFORMS; AAAS; PICMET; ISPIM; Western Regional Sci. Assoc.; Int'l Soc. for Systems Science; IEEE.

Juries, Review Panels

- Juror, Balearic Innovation and Technology Park Design Competition, Mallorca, Spain, 1994.
- Curriculum review panel, SUNY Stony Brook, B.S. program in Technological Systems Studies, 2002.
- City Club of Portland task force evaluating Portland's \$200 million urban renewal agency, 2003-04.
- External tenure reviewer, George Mason University, 2005, Portland State U., 2005, U. of New Mexico, 2006.
- Economics and Management Panel 2009-11, Fundação para a Ciência e a Tecnologia, Portugal.
- Judge, ScientificBlogging.com University Science Writing Competition, 2010.
- External dissertation reader, Singapore National University, 2012.
- Jury, MerckKGaA Ignite, 2022-24.

Task Forces, Committees

- OHSU task force on creation of biomedical engineering department; intellectual property committee, 2001.
- Task Force, Joint Boards (of Oregon Econ. Devel. Commission and State Board of Higher Education). Its Report to the Governor, *Building the Bonds of a Knowledge Economy*, led to legislation enabling state universities to own equity in spin-off firms and appropriating funds for a revitalized state seed capital fund.

Service & Editorial Activities, Directorships

- Vice President of ACIEK, Academy of Innovation, Entrepreneurship and Knowledge. A scholarly society.
- Board of Directors/Advisors of San Diego World Affairs Council, Alliances for Discovery, Cenquest Corp., The Software Quality Institute, Austin Technology Council, Paradigm II Companies, CellData Corp., Software Assoc. of Oregon, World Technopolis Assoc., Innovative Business Accelerator, Austin-Oita Sister City Committee, Incheon Free Economic Zone, World Association for Triple Helix and Future Strategy Studies, International Nonaka Academy, Big Heart Technologies.
- Editor-in-Chief (now Emeritus) of Technological Forecasting & Social Change. Editorial boards, Green & Low Carbon Economy; IEEE Transactions on Engineering Mgt.; Int'l Jour. of Global Environmental Issues; Foresight and STI Governance; Jour.Innov.&Knowledge. National Research University (Moscow) book series Science, Technology and Innovation Studies (Springer). Honorary Editor, Jour. Open Innovation. Advisory Board, International Jour. of Innovation Studies (Tsinghua University and Chinese Academy of Sciences), International Jour. of Innov. and Tech. Management; ROSA Journal.
- Mentor, Apprenticeships in Science & Engineering (for secondary school students), 2001, 2002.
- Head instructor and faculty advisor, OGI Aikido Club 1995-2004, YZU Aikido Club 2016-17.
- Organizing, Program, and Awards Committee (Chair), PICMET, the Portland International Conferences on Management of Engineering and Technology, 1997-2003.
- Occasional reviewer for Technovation; Industrial Mktg Mgt.; Socio-Econ. Plan. Sci.; Internat'l Jour. of Innovation and Tech. Mgt.; African Jour. Bus. Mgt.; Systemic Practice & Action Res.; Jour. of Engineering and Technology Mgt.; Trends in Biotechnology; Technology and Innovation; Jour.Bus.Res.; other journals.

Selected Consulting

- Planning & Policy: Office of the President of Rwanda, 2013. Vice Presidency of Iran, 2014-15.
- *High Tech Regional Economic Development:* MOST/NARLabs, Taiwan; 2016; US-EPA 2010-11; UNESCO; World Technopolis Association; Government of Costa Rica, County of Maui.; Taeduk Science City (Korea); PUC-Paraná, Brazil, and the city of Curitiba in Paraná state, 1994; Govern Balear, Spain, 1992; Serbia Innovation Fund, 2012-13; Government of Indonesia, 2018.
- **Research and Publishing:** Elsevier's *Sci-Topics Pages*; Pontificia Universidad Católica del Perú, 2006present; Fundação para a Ciência e a Tecnologia, Portugal, 2009-11. Samsung, 2015, Chinese Academy of Sciences (Institute of Geographic Sciences and Natural Resources Research, 2017-).
- *Higher Education:* Cenquest, Inc.; Japan-America Institute of Management Science (JAIMS), Honolulu, 2002; Ministry of Education and Science (Albania), 2011; Escuela Superiór Internacional, Guatemala, 2009; Mongolian ECO ASIA and Ministry of Education, Culture & Sciences, 2005.
- Market Research: Intel Corp., 1998, 2000; MRCA Information Services; Copaken, White & Blitt, Kansas City, MO, 1995; Sell-Thru Services, Austin, TX, 1992; HEB, San Antonio, TX, 1990; Intelliquest, Austin, TX, 1989-90; Millward-Brown, Naperville, IL, 1989-90; Ashton-Tate, Los Angeles, CA, 1989; Association of Home Appliance Manufacturers, Chicago, IL, 1979.
- *Technology Commercialization:* San Diego Zoo 2011; Science & Technology Policy Institute (STEPI), government of South Korea; Korea Research Council for Industrial Science and Technology; Office of the Chancellor, Oregon University System; Japan Research Institute (Sumitomo), industry incubation consortium, 1992-96; Atlas Telecomm, Portland, OR, 1993.
- Foresight: Merck, 2016-18. Samsung, 2016.
- *Speaker:* Royal Statistical Society, Advertising Research Foundation Leaders' Forum, The Conference Board, American Marketing Association, UNESCO, others.

Specialized Training: United Nations security training, 2010, 2013, 2018.

F.Y. Phillips PUBLICATIONS, PRESENTATIONS, AND WORKING PAPERS

Refereed Publications and Acceptances

- 1. F. Phillips, G.M. White and K.E. Haynes, "Extremal Approaches to Estimating Spatial Interaction". *Geographical Analysis*, Vol. 8, April, 1976, 185-200.
- 2. A. Charnes, K.E. Haynes, and F. Phillips, "A 'Generalized Distance' Estimation Procedure for Intra-Urban Interaction". *Geographical Analysis*, July, 1976, 289-294.
- 3. A. Charnes, F. Granot, and F. Phillips, "An Algorithm for Solving Interval Linear Programming Problems". *Operations Research*, Vol. 25, #4, July-Aug. 1977.
- 4. A. Charnes, R.D. Armstrong and F. Phillips, "Page Cuts for Integer Interval Linear Programming". *Discrete Applied Mathematics*, Vol. 1, #1,2, Sept. 1979, 1-14.
- 5. K.E. Haynes, F. Phillips and G.M. White, "A Market/Consumer Model of Residential Property Values: The airport-noise land use problem". *Environment & Planning A*. Vol. 8, May 1976, 271-286.
- 6. A. Charnes, K.E. Haynes, F. Phillips, and G.M. White, "Dual Extended Geometric Programming Problems and the Gravity Model". *Journal of Regional Science*, vol. 17, #1,1977.
- 7. K.E. Haynes, F. Phillips and B. Solomon, "A Coal Industry Distribution Planning Model Under Environmental Constraints". *Economic Geography*, vol.59, #1, pp.52-65, Jan. 1983.
- 8. K.E. Haynes and F. Phillips, "Environment and Urban Housing: an Estimation Model". *East Lakes Geographer: Proceedings*, Akron, Ohio, 1979.
- 9. K.E. Haynes, J. Mohrfeld and F. Phillips, "The Entropies: Some Roots of Ambiguity". *Socio-Economic Planning Sciences*, 14, 137–145. May 1980.
- 10. K.E. Haynes and F. Phillips, "Constrained Minimum Discrimination Information: A Unifying Tool for Modeling Spatial and Individual Choice Behavior". *Environment and Planning A*, vol.14, pp.1341-1354, 1982.
- 11. K.E. Haynes and F. Phillips, "Minimum Information Methods and Individual Choice: Applications to Linear and Loglinear Regression and Competitive Spatial Interaction Models". In G.E. Lasker, ed., *Applied Systems and Cybernetics: Proceedings of the International Congress on Applied Systems Research and Cybernetics -- Vol. II, Systems Concepts, Models and Methodology.* Pergamon Press, New York, 1981.
- 12. D.B. Learner and F. Phillips, "Information-Theoretic Models for Controlled Forecasting in Marketing." In D.B. Montgomery and D.R. Wittink, eds., *Market Measurement and Analysis: Proceedings of the ORSA/TIMS Marketing Science Conference*, Marketing Science Institute, 1979.
- A. Charnes, W.W. Cooper, D.B. Learner and F. Phillips, "A Theorem and Approach to Market Segmentation". In R. Leone, ed., *Market Measurement and Analysis: Proceedings of the Second ORSA/TIMS Marketing Science Conference*, The Institute of Management Sciences, Providence RI, 1980.
- 14. F. Phillips, "Comment on Goodhardt, et al., 'The Dirichlet Model of Consumer Choice'". *The Journal of the Royal Statistical Society*, series A (general), vol. 147, part 5, 621-655, 1984.
- 15. K.E. Haynes, F. Phillips and B. Solomon, "Private Sector Decision Making in a Coal Industry Distribution Planning Model". In Wm. G. Vogt, ed., *Modeling and Simulation*, vol.13, 1059-1066. Instrument Soc. of America, 1982.
- 16. A. Charnes, W.W. Cooper, D.B. Learner and F. Phillips, "An MDI Model and an Algorithm for Composite Hypothesis Testing in Marketing". *Marketing Science*, Vol. 3, No. 1, winter 1984, 55-72.
- 17. A. Charnes, W.W. Cooper, D.B. Learner and F. Phillips, "Management Science and Marketing Management". invited paper, *Journal of Marketing*, Vol. 49, no.2, pp. 93-105, spring 1985.
- F. Phillips, "Advanced DSS Design in Consumer and Marketing Research". DSS'85: Fifth International Conference on Decision Support Systems, 1985. Anthologized in R. Sprague and H. Watson, eds., Decision Support Systems: Putting Theory into Practice. Prentice-Hall, 1986. Adapted for case study at Ecole Des Hautes Etudes de Commerce, Montreal, 1987.
- 19. B. Golany, F. Phillips and M. Kress, "Estimating Purchase Frequency Distributions with Incomplete Data". *International Journal of Research in Marketing*. vol.3, pp.169-179, 1986.
- 20. K.E. Haynes and F. Phillips, "The Cost Constraint in the Maximum-Entropy Trip Distribution Model: A Research

F. Phillips publications, page 2 of 17

Note". Geographical Analysis, Vol. 19, No. 1, January 1987.

- D.B. Learner, F. Phillips, and J.J. Rousseau, "Managing Marketing Productivity: Mathematical and Computational Advances Allow Improved Management of Services Productivity, with Particular Application in Marketing." *Proceedings of the 41st ESOMAR Congress on Marketing Research*, 1988.
- 22. B. Golany, D.B. Learner, F. Phillips and J.J. Rousseau, "Efficiency and Effectiveness in Marketing Management." In B.-H. Ahn (ed.), *Asian-Pacific Operations Research: APORS* '88 Elsevier Science Publishers B.V., 1990.
- 23. F. Phillips and B. Golany, "A Heuristic for Estimating Densities from Data in Histogram Form". *Decision Sciences*, Vol. 21 No.4, pp.862-881, Fall 1990.
- 24. B. Golany, D.B. Learner, F. Phillips and J.J. Rousseau, "Managing Service Productivity". *Computers, Environment & Urban Systems*, Vol. 14 #2, 1990, 89-102.
- 25. A.W. Donoho, F. Phillips and R. Parsons, "Parallel Microcomputing for DEA". *Computers, Environment & Urban Systems*, Vol. 14 #2, 1990, 167-170.
- 26. B. Golany, F. Phillips and J.J. Rousseau, "Few-Wave vs. Continuous Consumer Panels: Some Issues of Attrition, Variance and Bias". *International Journal of Research in Marketing*, 8, 273-280, 1991.
- Fred Phillips and John J. Rousseau, "Efficiency of a Computer Company's Sales Regions." In J.W. Frazier, B.J. Epstein, F.A. Schoolmaster III, and J.D. Lord (eds.), *Papers and Proceedings of the Applied Geography Conferences*, Volume 13, Association of American Geographers, 1990, 80-87.
- B. Golany, F. Phillips and J.J. Rousseau, "Models for Improved Effectiveness Based on DEA Efficiency Results." IIE (Institute of Industrial Engineers) Transactions, Vol. 25, No.6, November, 1993.
- 29. F. Phillips, R.K. Srivastava and R.S. Springer, "Project Valuation and Scheduling with Recourse." in the refereed *Proceedings* of PICMET'91, the Portland International Conference on Management of Engineering and Technology (IEEE Engineering Management Society), October, 1991.
- D.B. Learner and F.Y. Phillips, "Method and Progress in Management Science." Socio-Economic Planning Sciences, Vol. 27, No. 1, pp. 9-24, 1993.
- 31. A. Charnes, W.W. Cooper, B. Golany, D.B. Learner, F. Phillips and J. J. Rousseau, "A Multiperiod Analysis of Market Segments and Brand Efficiency in the Competitive Carbonated Beverages Industry." in A. Charnes, W.W. Cooper, A.Y. Lewin and L. Seiford (eds.), *Data Envelopment Analysis: Theory, Methodology and Applications*, published by Kluwer Academic Publishers, Hingham, MA, in 1995 using the refereeing practices and standards of the journal *Management Science*.
- 32. F. Phillips, "Brand Shifting in Hierarchical Markets: A New Model and Information Equivalency." *Journal of the Operational Research Society*, Vol.45, No.8, pp.901-915, 1994.
- John Allison, W.W. Cooper, George Kozmetsky, and Fred Phillips, "Self-Policing and Reinforcement as Alternatives to Government Regulation for Quality Assurance in Research." *Accountability in Research: Policies* and Quality Assurance, Vol. 3, pp.137-145, 1993.
- John Allison, W.W. Cooper, George Kozmetsky, and Fred Phillips, "Comprehensive Audits for Use in Evaluating Scientific Research." Accountability in Research: Policies and Quality Assurance, Vol. 3, pp.1-9, 1993.
- 35. F. Phillips, "Analysis of a contingency table using MDI estimation in excel 3.0" (Research Note.) Journal of Empirical Generalisations in Marketing Science, Volume 14, Issue 1, 2013. https://www.empgens.com/article/approaches-toanalyzing-brand-switching-matrices/
- G. Kozmetsky, S. Thore and F. Phillips, "DEA of Financial Statements Data: The U.S. Computer Industry." *Journal of Productivity Analysis*, Vol.5, No.3, pp.229-248, 1994.
- with B. Golany and J.J. Rousseau, "Optimal Design of Syndicated Panels." *European Journal of Operations Research* 87 (1995) 148-165.
- P. Brockett, A. Charnes, W.W. Cooper, D.B. Learner and F. Phillips, "Marketing Research Unification by Information Theoretic Methods." *European Journal of Operational Research*, Vol. 84, pp.310-329, 1995.
- 39. S. Thore, G. Kozmetsky, F. Phillips, T. Ruefli, and P. Yue, "DEA and the Management of the Product Cycle: the U.S. Computer Industry." *Computers and Operations Research*, Vol. 23, No.4, 341-356, 1995.
- P. Brockett, S.H. Cox, B. Golany, F. Phillips and Y. Song, "Actuarial Use of Grouped Data: An Information Theoretic Approach to Incorporating Secondary Data." *The Transactions of the Society of Actuaries*, Vol. 47, 1996.
- 41. F. Phillips and N. Kim, "Implications of Chaos Research for New Product Forecasting." *Technological Forecasting and Social Change*, Volume 53, Issue 3, 1996, 239-261.

F. Phillips publications, page 3 of 17

- 42. K.E. Haynes, Fred Y. Phillips, L. Qiangsheng, N.S. Pandit and C.R. Arieira, "Managing Investments in Emerging Technologies: The Case of IVHS/ITS." *ITS Journal*, 1996, Vol. 3, No. 1, pp.21-47.
- 43. Fred Phillips, Andrew Donoho, William Keep, Walter Mayberry, John M. McCann, Karen Shapiro, and David Smith, "Electronically Connecting Retailers and Customers: Summary of an Expert Roundtable." *Journal of Shopping Center Research* 4:2 Fall/Winter 1997, 63-94.
- 44. Fred Phillips, Lyle Ochs, and Mike Schrock, "The Product is Dead!" *PICMET* '97, Proceedings of the Portland International Conference on Management of Engineering and Technology, July, 1997.
- 45. Jun Kamo and Fred Phillips, "The Evolutionary Organization as a Complex Adaptive System." *PICMET* '97, Proceedings of the Portland International Conference on Management of Engineering and Technology, July, 1997.
- 46. F. Phillips, "Public Health and Aesthetics in the Environmental Debate." *Technological Forecasting & Social Change* 55:2, June, 1997, pp.193-195.
- 47. F. Phillips, "University-Industry Partnerships in Management Research." *Technological Forecasting & Social Change* 57:3, March, 1998, pp.257-260.
- 48. Fred Phillips, Lyle Ochs, and Mike Schrock, "The Product is Dead: Long Live the Product-Service." *Research•Technology Management*, vol. 42, no. 4, July-August, 51-56, 1999.
- 49. F. Phillips, "A Method for Detecting a Shift in a Trend" *PICMET '99*, Proceedings of the Portland International Conference on Management of Engineering & Technology, Portland State University, Portland, Oregon. July, 1999.
- 50. F. Phillips, "Some Good Reasons for Faith in the Market." *Technological Forecasting & Social Change*, 60, 95-96, 1999.
- 51. F. Phillips and S. Tuladhar, "Measures of Organizational Flexibility." *Technological Forecasting & Social Change* 64/1, May 2000, 23-38.
- 52. Lois Delcambre, Mathew Weaver, Timothy Tolle, David Maier, Eric Landis, Shawn Bowers, Patty Toccalino, Fred Phillips, Nicole Steckler, Craig Palmer, Julia Norman, Rupini Tummala, Sonali Varde (2001) "Similarity search for harvesting information to sustain our forest." *Proceedings* of DG.O 2002, the Digital Government Conference, April 2002, pp 155-158.
- 53. Balbinder Banga, Lois Delcambre, Eric Landis, Fred Phillips, Tim Tolle, "User Needs Assessment for the Adaptive Management Portal." *Proceedings* of DG.O 2002, the Digital Government Conference, Los Angeles, April 2002, pp1-9.
- 54. Timothy Tolle, Patty Toccalino, Lois M. L. Delcambre, Julia Norman, Fred Phillips, David Maier, "Using Controlled Vocabularies as a Knowledge Base for Natural Resource Managers." dg.o '02 *Proceedings* of the 2002 Annual National Conference on Digital Government Research. Pages 1-7. Digital Government Society of North America ©2002.
- L. Delcambre, T. Tolle, D. Maier, F. Phillips, P. Toccalino, N. Steckler, M. Koch, L. Shapiro, E. Landis, B. Banga, S. Bowers, J. Brewster, A. Gutema, W. Howe, S. Murthy, J. Norman, R. Tummala, M. Weaver, and K. Zillman. 2003. "Harvesting Information to Sustain our Forests." *Communications of the ACM*. 46(1):38-39.
- 56. Marianne Koch, Lois Delcambre, Patricia Toccalino, Eric Landis, Fred Phillips, Tim Tolle, Len Shapiro, Nicole Steckler, David Maier, Mathew Weaver, Shawn Bowers, Balbinder Banga, Jason Brewster, Afrem Gutema, Sudarshan Murthy, Bill Howe, Rupa Tummala, Julia Norman, Kirsten Zillman, David Drake, Craig Palmer, Ashley Burt (2003) "The forest portal: a multidisciplinary project." *Proceedings* of the 2003 annual national conference on Digital government research. pp 1-4. Digital Government Society of North America.
- 57. Lois Delcambre, Timothy Tolle, David Maier, Mathew Weaver, Daniel Behlings, Patricia Toccalino, Lacey Baldwin, Fred Phillips, Nicole Steckler, Marianne Koch, Marianne Lykke Nielsen, Eric Landis (2003) Harvesting information to sustain our forests: serendipity supplement (2001) REU supplement (2001) deployment supplement. *Proceedings* of the 2004 annual national conference on Digital government research, p.54. Digital Government Society of North America.



58. F. Phillips, "Trading Down: The Intellectual Poverty of the New FTAs." *Technological Forecasting & Social Change*, Volume 71, Issue 8, October 2004, pp. 865-876.

F. Phillips publications, page 4 of 17

- 59. Lois Delcambre, Fred Phillips and Mathew Weaver, "Knowledge Management: A Re-Assessment and Case." *Knowledge, Technology & Policy*, 17:3, 2005.
- 60. F. Phillips, "New Directions for Technology-Based Economic Development: Evidence from Austin, Portland, and Beyond." in E. Kaynak and T. Harcar (eds.) *Advances in Global Management Development* (Proceedings of the 2004 Congress of the International Management Development Association), Maastricht, 2004, pp. 677-684.
- 61. F. Phillips, "25 Years of Data Envelopment Analysis." *International Journal of Information Technology and Decision Making*, Vol. 4, Issue 3, September, 2005, 317-323.
- 62. F. Phillips, "The Techno-Management Imagination." Proceedings of the PICMET Conferences, Portland International Conference on Management of Engineering and Technology, Portland, Oregon, 2005.
- 63. F. Phillips, "Technology and the Management Imagination." Pragmatics & Cognition, 13:3, 533-565, 2005.
- 64. F. Phillips, "Toward an Intellectual and Theoretical Foundation for 'Shared Prosperity." *Systemic Practice and Action Research*, 18:6, December, 2005, pp. 547-568.
- 65. F. Phillips and L. Seiford, "IFORS Operational Research Hall of Fame: Abraham Charnes." *International Transactions in Operational Research* 13:3, May, 2006, 273-77.
- 66. F. Phillips, "On S-curves and Tipping Points." Tech. Forecasting & Social Change, 74(6), July 2007, 715-730.
- 67. F. Phillips, "Change in socio-technical systems: Researching the Multis, the Biggers, and the More Connecteds." *Technological Forecasting & Social Change*, 75(5), June 2008, 721-734.
- 68. F. Phillips, "The Godfathers: Characteristics and Roles of Central Individuals in the Transformation of Techno-Regions." *Journal of Centrum Cathedra*, 1(2): 12-27, 2008.
- 69. F. Phillips and Y.-S. Su, Advances in evolution and genetics: Implications for technology strategy, *Technol. Forecast. Soc. Change* 76(5): 597-607, 2009.
- 70. F. Phillips, "Zen and Management Education." Journal of Centrum Cathedra, 1(4) September 2009.
- 71. F. Phillips, "Inter-institutional Relationships and Emergency Management." *International Journal of Society Systems Science*, Vol. 3, No.1/2 2011 pp. 40 57.
- 72. P. Limprayoon and F. Phillips, "Corporate vs. Social Attitudes toward Environmental Externalities." *Int'l. Jour. Global Environmental Issues*, Vol. 11, No. 2, 2011, pages 109-138.
- 73. Mei-Chih Hu and F. Phillips, Technological evolution and interdependence in China's emerging biofuel industry. *Technological Forecasting & Social Change*, 78(7), September 2011, Pages 1130-1146.
- 74. F. Phillips, The state of technological and social change: Impressions. *Technological Forecasting & Social Change*. Volume 78, Issue 6, July 2011, Pages 1072-1078
- 75. F. Phillips and Y.-S. Su, "Chaos, Strategy, and Action: How not to fiddle while Rome burns." *International Journal of Innovation and Technology Management*, Vol.10, No. 6, pp.1-19, December 2013.
- 76. F. Phillips, "Social Capital, Social Engineering, and the Technopolis." *World Technopolis Review*, 1(2) April 2012, 86-91.
- 77. F. Betz and F. Phillips, "Models-Talking-To-Models For Policy." *Proceedings* of PICMET'13, San Jose CA, 2013.
- H. Linstone and F. Phillips, "The Simultaneous Localization-Globalization Impact of Information/Communication Technology." *Technological Forecasting & Social Change*, 80 (2013), 1438-1443.
- 79. F. Phillips, "A Life in Systems." *Proceedings* of the 57th Annual Meeting of the International Society for System Sciences 2013 HaiPhong, Vietnam.
- Rachel H. Kim and F. Phillips, "Innovation Capability in Pharmaceutical R&D Management." *Management Review: An International Journal*, 8 (1), 76-97, Summer, 2013. https://www.questia.com/library/journal/1P3-3132921151/innovation-capabilities-in-bio-pharmaceutical-r-d
- F. Phillips, "Meta-measures for Technology and Environment." *Foresight*, Volume 16 Issue 5 pp. 410–431 (2014).
- F. Phillips, D. Chang, S. Heetun, B. Kim, H-J Lee, and S. Park, "High-Performance Inter-Organizational Interaction for Disaster Response: An evolutionary game." *PICMET '14* (Portland International Conferences on Management of Engineering & Technology), Kanazawa, Japan.
- 83. F. Betz and F. Phillips, "Model Ontology For Economic Models." PICMET '14 (Portland International Conferences on Management of Engineering & Technology) *Proceedings*, Kanazawa, Japan.
- 84. F. Phillips, "Triple Helix and the Circle of Innovation." *Journal of Contemporary Eastern Asia* (JCEA). Vol. 13, No. 1, April/May 2014, 57-68. http://eastasia.yu.ac.kr/Phillips_13_1.pdf

F. Phillips publications, page 5 of 17

- Mei-Chih Hu, F. Phillips, Ching-Yan Wu and Sheng-Hsiang Wang, "The influence of technological regime in the LED industry: The innovative latecomer's perspective." *Innovation: Management, Policy and Practice*, 17(1), 91-114, 2015.
- Frederick Betz, Antonnie Jetter, Whasik Min, Fred Phillips and Dong Woo Shin, "Innovation Intermediaries in a Triple Helix." *Jour. Knowledge Economy*, June 2016, Volume 7, Issue 2, pp 587–599. DOI 10.1007/s13132-014-0230-7
- 87. F. Betz and F. Phillips, "Model Ontology and Information Architecture." Proceedings of PICMET2015.
- H. Yoon, S. Yun, J. Lee and F. Phillips, "Entrepreneurship in East Asian Regional Innovation Systems: Role of Social Capital." *Technological Forecasting & Social Change*, Vol. 100, November 2015, 83-95.
- 89. D.-S. Oh and F. Phillips, "Sharing Innovation's Benefits." World Technopolis Review, 4(3), 126-131, 2015.
- 90. F. Phillips, G. George Hwang, and Pornpimol Limprayoon, "Inflection Points and Industry Change: Was Andy Grove Right After All?" *Int'l. Jour. Technology Management in Growing Economies*, Vol. 7, Issue 1, April, 2016. <u>http://www.tmgejournal.com//pdfs/vol7-no1/Inflection-points-and-industry-change.pdf</u>
- 91. F. Phillips and H. Linstone, "Key Ideas from a 25-Year Collaboration at TFSC." *Technological Forecasting & Social Change*, Vol. 105, pp.158-166, April, 2016.
- 92. Deog-Seong Oh, Fred Phillips, Sehee Park, and Eunghyun Lee, "Innovation Ecosystems: A critical examination." *Technovation*, 54 (2016) 1–6.
- Cheng-Chin Tsao, Pei-Chann Chang, Chin-Yuan Fan, Shu-Hao Chang, Fred Phillips, "A patent quality classification model based on an artificial immune system." *Soft Computing*, May 2016, DOI 10.1007/s00500-016-2212-0.
- 94. (SSRN TOP TEN): L. Golden, J. Hsieh, C. Ingene and F. Phillips, "Business Schools in Crisis." Journal of Open Innovation: Technology, Market, and Complexity 2(1), 1-21, June, 2016. DOI 10.1186/s40852-016-0037-9; http://jopeninnovation.springeropen.com/articles/10.1186/s40852-016-0037-9
- 95. F. Phillips, Letter: "Deciphering p values: Defining significance." *Science*, 05 Aug 2016: Vol. 353, Issue 6299, p.551.
- 96. F. Phillips, "The Circle of Innovation." Journal of Innovation Management Vol. 4, No.3, 12-31, 2016.
- 97. F. Phillips and D.-S. Oh, "Technology Assessment and the Social and Human Impact of Innovation." *Bulletin of the Atomic Scientists*, 72(6), 402-411, 2016.
- F. Phillips, Kondratieff Gold Medal Laureate Address: Multiplicity and Divergence Challenge the Social Sciences. *Kondratieff Waves, Vol.4: The Spectrum of Opinions*. 2019 145-152. Volgograd: Uchitel Publishing House.
- 99. F. Phillips, D.-S. Oh, and E.-H. Lee, "Cluster or Diversify? A dilemma for sustainable local techno-economic development." *World Technopolis Review*, 5(2) pp. 86-97, December, 2017.
- 100.F. Phillips, "Perspectives on Big Data." *Science and Public Policy*, 44(5) 2017, 730-737. doi: 10.1093/scipol/scx012
- 101.S. Heetun, F. Phillips and S. Park, "Post-Disaster Cooperation among Aid Agencies." *Systems Research and Behavioral Science*, 35(3) 233-247, May-June 2018. (Published online 15 June, 2017, DOI: 10.1002/sres.2476.)
- 102.F. Phillips, Ching-Ying Yu, Tahir Hameed and Mahmoud Abdullah El Akhdary, "Knowledge Society: Origins and Current Trajectory." *International Journal of Innovation Studies*, 1(3) (2017) pp. 175-191. <u>http://www.sciencedirect.com/science/article/pii/S2096248717300073</u>
- 103. Hyungseok Yoon, Namil Kim, Bernard Buisson, and Fred Phillips, "A Cross-National Study of Knowledge, Government Intervention, and Innovative Nascent Entrepreneurship." *Jour. Bus. Res.*, 84, 243-252, 2018.
- 104.F. Phillips, J. Chang, and Y-S. Su, "When do efficiency and flexibility determine firm performance? A simulation study." *Jour. Innovation & Knowledge*, 4 (2019) 88-96.
- 105.F. Phillips, "Innovation for Sustainability," *Strategic Change*, 27(6): 539-542, 2018. http://dx.doi.org/10.1002/jsc.2237
- 106.F. Phillips, The Sad State of Entrepreneurship Today: What educators can do about it. *Technological Forecasting & Social Change*, Vol.129, 2018, 12-15.
- 107.F. Phillips, "The Globalization Paradox," Technological Forecasting & Social Change, 143 (2019) 319-320.
- 108. Wiley Award for JAIST Top Downloaded Paper 2018-19: Leydesdorff, Loet, Igone Porto, Jordan A. Comins, F. Phillips, (2019) "Synergy in the Knowledge Base of US Innovation Systems at National, State, and Regional Levels: The Contributions of High-Tech Manufacturing and Knowledge-intensive Services." *Journal of the Association for Information Science and Technology (JASIST)*, 70(10): 1108–1123, 2019. DOI:

F. Phillips publications, page 6 of 17

10.1002/asi.24182

- 109.Ulrich A.K. Betz, Frederick Betz, Rachel Kim, Brendan Monks, and Fred Phillips, Surveying the future of science, technology and business – a 35-year perspective. *Technological Forecasting & Social Change*, Volume 144, July 2019, Pages 137-147.
- 110.F. Phillips, "The End of Determinism: The Circle of Innovation." *European J. of International Management*, 2019. DOI: 10.1504/EJIM.2020.10021762
- 111.F. Phillips, Hsing-Er Lin, Trudi Schifter and Nicholas Folse, "Augmented Popperian Experiments: A framework for sustainability knowledge development across contexts." *European J. of International Management*, May 2019. DOI: 10.1504/EJIM.2020.10024697
- 112.F. Phillips, A View of China's Prospects, Obstacles, and Contradictions. *World Technopolis Review* 8(1) 2-7, June, 2019.
- 113.U. Betz, F. Phillips, B. Monks, Scientists, businesspeople, professional forecasters predict differing worlds of 2052. Bulletin of the Atomic Scientists, August 5, 2019. https://thebulletin.org/2019/08/scientists-businesspeopleprofessional-forecasters-predict-differing-worlds-of-2052/
- 114. F. Phillips, Does Complexity Belong Inside the Firm, or Out? *Economic Research-Ekonomska Istraživanja*, 33(1) 2020. https://doi.org/10.1080/1331677X.2019.1625796
- 115.F. Phillips, Z. Pu, & M. Martinez-Ramon (2020, refereed conference paper) Project Plan: Toward the Sustainable Development Goals. ISPIM, Bangkok.
- 116. Fan Zhang, Xiangzheng Deng, Chao Wang and F. Phillips, Impacts of industrial structure and technical progress on carbon emission intensity: Evidence from 281 cities in China. *Technological Forecasting & Social Change*, Vol.154, May 2020, paper #119949.
- 117.F. Phillips, The SDG Project: A Long-term Project under Technological Uncertainty. *Engineering*, Volume 6 Issue 6 (June 2020) https://doi.org/10.1016/j.eng.2020.03.013.
- 118.F. Phillips, From My Perspective: Toward Peace Engineering. *Technological Forecasting & Social Change* special issue on Peace Engineering (Y. Marinakis, guest editor), Vol. 158, September, 2020, Paper#120148.
- 119.F. Phillips, Commentary: Peace Engineering Gains Momentum. *Sustainability*, June 2020. https://www.mdpi.com/2071-1050/12/12/5203/pdf
- 120. Yu-Wen Sophia Liu, Chin-Chia Michael Liang & F. Phillips, Precursors of intellectual property rights enforcement in East and Southeast Asia. *Industrial Marketing Management*, 2020, Vol. 90 (October) 133-142.
- 121.Yun-Chu Delphine Wang, Fred Phillips and Chyan Yang, Bridging Innovation and Commercialization to Create Value: Open Innovation at Industrial Technology Research Institute (ITRI). *Journal of Business Research*, 123 (2021) 255–266.
- 122.Phillips, F. Interconnections: A Systems History of Science, Technology, Leisure, and Fear. J. Open Innov. Technol. Mark. Complex. 2021, 7, 14. <u>https://doi.org/10.3390/joitmc7010014</u>
- 123.Phillips, F. (2021) Staying Unchanneled. Technological Forecasting & Social Change, Vol 168 #120789.
- 124.Phillips, F. and Angela Chao, Rethinking Resilience: Definition, context, and measure. *IEEE Transactions on Engineering Management*, 2021, DOI: 10.1109/TEM.2021.3139051.
- 125.Sepehr Ghazinoory, Nasrin Bigdelou, Masoud Afshari-Mofrad, & F. Phillips, Innovation Lives in Ecotones, Not Ecosystems. *Jour.Bus.Res*, 135 (2021) 572–580.
- 126.Phillips, F.; Reimer, L.; Turner, F. Climate Dialog, Climate Action: Can democracy do the job? *J. Open Innov.* 2022, 8(1), 31; https://doi.org/10.3390/joitmc8010031
- 127. Chao, A. and F. Phillips, The Chinese Zombie Firm: Dilemma and Resolution. *Economic Research-Ekonomska Istraživanja*, Vol. 36, No. 3, Article 2153718, 2023.
- 128.F. Phillips, O.R., Systems, and MOT: A professional memoir. *Technological Forecasting & Social Change*, Volume 188, March 2023, 122298.
- 129.F. Phillips, On Violence. *Club of Amsterdam Journal*, March 2023, Issue 252. https://clubofamsterdam.com/Ncontentimages/journal%202023/journal%20252/journal252.htm#article04
- 130.J. Martinez, F. Phillips, and S. Walsh, The Journal that Hal Built: TF&SC's founding editor and early authors laid foundations for a discipline and a premier journal. Accepted, *Technological Forecasting & Social Change*, April 2023.
- 131.F. Phillips, A More Perilous Research Scene. *The ROSA Journal*, March, 2023. https://www.scienceasset.com/journal/rosa/a-more-perilous-research-scene/
- 132.Phillips, F. (2023) Techno-Economic Directions for a Green Future. *Green and Low-Carbon Economy*, 1(2), 51. https://doi.org/10.47852/bonviewGLCE3202886

Submitted for Peer Review

- 1. S. Ghazinoory, P. Aghaei and F. Phillips, Interactions between particles, a metaphor for relationships between firms. Submitted to *Synthese*, January 2023.
- 2. H. Cai, F. Phillips, and M. Xia, Carbon Capture/Storage and Firm Performance. Submitted to *British Management Journal*, January 2023.
- 3. F. Phillips, M.-C. Hu, Allan Wu, Re-conceiving the long waves: Implications for innovation and economic policy. Submitted to *Curious2022 Future Insight Conference Abstracts* (Springer Nature) April 2023.
- 4. M. Malyy, Z. Tekic, and F. Phillips, How Technology-Based New Ventures Grow: Empirical Evidence and Theoretical Advancements in Organizational Life Cycle Research. Submitted to *Jour.Bus.Venturing*, May 2023.
- 5. M-C. Hu, F. Phillips, A. Wu, Social innovations mediate technology and economy in the K-waves. Submitted to *Technological Forecasting & Social Change*, September 2023.
- 6. F. Phillips, L. Pham, Technology forcing for planetary survival. Submitted to *IEEE Transactions on Engineering Management*, August 2023.

Works in Progress

Books Authored

- 1. F. Phillips, *Market-Oriented Technology Management: Innovating for Profit in Entrepreneurial Times*. Springer, Heidelberg, 2001.
- 2. F. Phillips, The Conscious Manager: Zen for Decision Makers. General Informatics, Beaverton, OR, 2003.
- 3. F. Phillips, *Social Culture and High-Tech Economic Development: The Technopolis Columns*. Palgrave Macmillan, London, 2006.
- 4. Javier Vitale, F. Phillips and 27 others, A Glossary of Terms Commonly Used in Futures Studies. Forward Thinking Platform/Global Forum on Agricultural Research (GFAR), 2014. https://www.academia.edu/attachments/35396078/download_file?st=MTQxNTA2MDc0MSwyMjMuMTk0LjE 5Ni41NiwxNjM00TA4OA%3D%3D&s=swp-toolbar
- 5. F. Phillips, What About the Future? New perspectives on planning, forecasting and complexity. Springer, 2019.
- 6. F. Phillips, *El Gerente Consciente: Zen para los que toman decisiones*. (Translation of *The Conscious Manager.*) Editorial Académica Española, 2018.
- 7. F. Phillips, Learning and Teaching Aikido. World Scientific, 2021.
- 8. F. Phillips, More Learning and Teaching Aikido. General Informatics, 2023.

Books Edited

- 1. F. Phillips and J.J. Rousseau (eds.) Systems and Management Science by Extremal Methods: Research Honoring Abraham Charnes at Age 70, Kluwer Academic Publishers, Norwell MA, 1992.
- 2. F. Phillips (ed.), *Concurrent Life Cycle Management: Manufacturing, MIS and Marketing Perspectives*. IC² Institute of the University of Texas at Austin, 1990.
- 3. F. Phillips (ed.), *Thinkwork: Working, Learning and Managing in a Computer-Interactive Society*. Praeger, Westport, Conn., 1992.
- 4. S. El-Badry, H. Lopez-Cepero, and F. Phillips, (eds.), US-Japan Shared Progress in Technology Management and Technology Policy. IC² /JIMT monograph #2, 1994.
- 5. W.W. Cooper, D.V. Gibson, F. Phillips, and S. Thore (eds.), *IMPACT: How IC² Research Affects Public Policy and Business Practices*. Greenwood (Quorum Books), Westport, Conn., 1997.
- F. Phillips (ed. and series ed.), *Managing Innovation, Technology, and Entrepreneurship*. Meyer & Meyer Media, Aachen, 2009. http://www.m-m-sports.com/managing-innovation-technology-and-entrepreneurship-9781841262673.html
- 7. (as series editor) Stephanie Jones, Khaled Wahba, and Beatrice I.J.M. van der Heijden, *How to Write Your MBA Thesis: A Comprehensive Guide for All Master's Students Required to Write a Research-Based Thesis or Dissertation*. Meyer & Meyer Media, Aachen, (2007)
- 8. (as series editor) Joop Remmé, Stephanie Jones, Beatrice I.J.M. van der Heijden and Silvio De Bono, Leadership,

Change, and Responsibility. Meyer & Meyer Media, Aachen, (2008)

- 9. (as series editor) Stephanie Jones and Silvio De Bono, *Managing Cultural Diversity*. Meyer & Meyer Media, Aachen, (2008)
- 10. D.S. Oh and F. Phillips (eds.) *Technopolis: Best Practices for Science & Technology Cities*. Springer, 2014, ISBN 978-1-4471-5507-2.
- 11. D.S. Oh, F. Phillips, and A. Mohan (eds.) *Smart City 2.0: Strategies for City Development and Innovation*. World Scientific, Singapore, 2023.

Journal Special Issues and Special Sections, Edited

- 1. F. Phillips and Manabu Eto, eds., Special Section "Revitalizing University Research and Its Contribution to Society." *Technological Forecasting & Social Change* 57, 3, March 1998, 205-265.
- 2. F. Phillips and David Drake, eds., Special Edition "Navigating Complexity: The Future of Knowledge and Learning in Organizations." *Technological Forecasting & Social Change* 64/1, May 2000.
- 3. F. Phillips, Y.-S. Su, eds., Special Section "Advances in evolution and genetics: Implications for technology strategy," *Technol. Forecast. Soc. Change* June 2009.

Proceedings Edited

- 1. J.P. Hsu, F. Phillips and J. Gervais (eds.), *International Workshop on Concurrent Engineering*. National Science Foundation, 1991.
- 2. F. Phillips, R. Goldgar and J. Orth (eds.), *Software Engineering in the 90s: Perspectives for Austin's Growth as a Software Center*. IC² Institute of The University of Texas at Austin and Austin Software Council, 1992.
- 3. F. Phillips and Chirag Desai (eds.), *New Software Technologies*. IC² Institute, 1993.
- 4. Robert Culbertson and F. Phillips (eds.), *ElectroComm* '94: A Conference on Electronic Commerce. IC² Institute, 1995.
- 5. H. Curtis, W. Lopez, and F. Phillips (eds.), *The Asian Flat Panel Display: Technology and Strategy Proceedings of a University-Industry Workshop, Portland, 1996.* Oregon Graduate Institute, 1996.
- 6. Ronald Tuninga, Fred Phillips, and Ron Soeren (eds) *Proceedings of the MsM Partners' Conference 2005*. Maastricht School of Management, July, 2005.
- 7. Fred Phillips and Johanna Korff (eds) *Proceedings of the MsM Partners' Conference 2006*. Maastricht School of Management, June, 2006.
- 8. Fred Phillips and Beau Erken (eds) *Proceedings of the MsM Partners' Conference 2007*. Maastricht School of Management, June, 2007.
- 9. Fred Phillips, and Fer Somogyi (eds) *Proceedings of the MsM Partners' Conference 2008*. Maastricht School of Management, June, 2008.

Book Chapters

- 1. D.B. Learner and F. Phillips, "A. Charnes' Contributions to Marketing." in F. Phillips and J.J. Rousseau (eds.) *Systems and Management Science by Extremal Methods: Research Honoring Abraham Charnes at Age 70*, Kluwer Academic Publishers, Norwell MA, 1990.
- 2. F. Phillips, "ParcBIT and Balearic Economic Development," in A. Font (ed), *ParcBIT: toward new ways of living and working in the 21st century*. Consellería d'Hisenda y Economia, Govern Balear, Palma de Mallorca, © 1995.
- 3. D.B. Learner, F. Phillips and J.J. Rousseau, "A Management System for Analyzing and Monitoring the Productivity of Armed Forces Recruiting." in W.W. Cooper, D.V. Gibson, F. Phillips, S. Thore and A. Whinston (eds), *IMPACT: How IC² Research Affects Public Policy and Business Markets*. Kluwer, 1996, 167-188.
- K.E. Haynes, F.Y. Phillips and R. Srivastava, "Uncertainty in Infrastructure Management." in J. Giffor, D. Uzarski and S. McNeil (eds.) *Infrastructure Planning and Management*, American Society of Civil Engineers, New York, 1993, pp. 452-461.
- 5. "Computer Evaluation of Legislative Redistricting Plans", in C.A. Andrews and R.E. Yager, eds., *Abbreviated Report by Research Participants in Secondary Science Training Program*. SUI Press, Iowa City, 1967.
- 6. "The Regional Impact of an Environmental Policy: Pollution Abatement on the Hudson, the Refuse Act of 1899". In K.E. Haynes and J.E. Hazleton, *Establishment of Operational Guidelines for Texas Coastal Zone Management*. LBJ School of Public Affairs, Austin, 1973.

F. Phillips publications, page 9 of 17

- 7. "Life Cycles and Concurrent Analysis." in F.Y. Phillips (ed.), *Concurrent Life Cycle Management: Manufacturing, MIS and Marketing Perspectives.* IC2 Institute of the University of Texas at Austin, 1990.
- 8. F. Phillips and L. Spindler, "Product Life Cycle Planning and Global Location Dynamics." in F.Y. Phillips (ed.), *Concurrent Life Cycle Management: Manufacturing, MIS and Marketing Perspectives*. IC2 Institute of the University of Texas at Austin, 1990.
- 9. "The Data Fusion Problem." in F.Y. Phillips (ed.), *Concurrent Life Cycle Management: Manufacturing, MIS and Marketing Perspectives.* IC2 Institute of the University of Texas at Austin, 1990.
- with B. Golany, "A Maximum-Entropy Based Heuristic for Density Estimation from Data in Histogram Form." in F.Y. Phillips (ed.), *Concurrent Life Cycle Management: Manufacturing, MIS and Marketing Perspectives*. IC2 Institute of the University of Texas at Austin, 1990.
- 11. "Tracking the Introduction of a New Product: What Really Happens?" in F.Y. Phillips (ed.), *Concurrent Life Cycle Management: Manufacturing, MIS and Marketing Perspectives*. IC2 Institute of the University of Texas at Austin, 1990.
- 12. "Customer Orientation, and Can the PC Market Absorb all these Mips?" in F.Y. Phillips (ed.), *Thinkwork: Working, Learning and Managing in a Computer-Interactive Society*. Praeger, New York, 1992.
- K.E. Haynes, F. Phillips and R. Srivastava, "Uncertainty as a Management Evaluation Tool for Projects." in Manas Chatterji (ed.), *Regional Science: Perspectives for the Future*. McMillan and St. Martin's Press, Devon, U.K., 1996, pp.127-143.
- Fred Phillips, Andrew Donoho, William Keep, Walter Mayberry, John M. McCann, Karen Shapiro, and David Smith, "Electronically Connecting Retailers and Customers: Interim Summary of an Expert Roundtable." in Robert A. Peterson (ed.), *Electronic Marketing and the Consumer*, Sage Publications, Beverly Hills, 1997.
- K.E. Haynes, F. Phillips, N.S. Pandit and C.R. Areira, "Investment Policy and Innovation Management: An Exploratory Analysis." in C.S. Bertuglia, S. Lombardo and P. Nijkamp (eds.), *Innovative Behaviour in Space* and Time. Springer, Berlin, 1997.
- 16. F. Phillips, "University-Industry Partnerships in Management Research." in R. Ronstadt and G. Kozmetsky (eds) *Newer Perspectives on the Generation of Knowledge*. IC² Institute, University of Texas at Austin, 1999.
- 17. F. Phillips, "Entrepreneurship: An introduction to critical issues for new growth businesses." Invited introductory chapter for *Research for Egypt's Development, 2005-2006* (Vol. 1: Family Business and Entrepreneurship), published by Regional Information Technology Institute (RITI), Cairo, 2006.
- F. Phillips, "Economic Development Alliances." *Encyclopedia of Networked and Virtual Organizations*. IDEA Group / Information Resources Management Association, Hershey, PA, 2007.
- 19. F. Phillips, "Technology and the management imagination" in Itiel E. Dror (ed.) *Cognitive Technologies and the Pragmatics of Cognition.* John Benjamins Publishing Co., Amsterdam, 2007.
- 20. Fred Phillips & Jean S. Verhardt, "Firms, innovation and entrepreneurship." Chapter 1 in F. Phillips (ed.), *Managing Innovation, Technology, and Entrepreneurship.* Meyer & Meyer Media, Aachen, 2009.
- Gene Konecci, Fred Phillips, & Jean S. Verhardt, "The business plan." Chapter 7 in F. Phillips (ed.), Managing Innovation, Technology, and Entrepreneurship. Meyer & Meyer Media, Aachen, 2009.
- 22. Jean S. Verhardt, Rod McNaughton, & Fred Phillips, "Funding for new businesses and for corporate R&D." Chapter 11 in F. Phillips (ed.), *Managing Innovation, Technology, and Entrepreneurship*. Meyer & Meyer Media, Aachen, 2009.
- 23. Fred Phillips, "Assessing and enhancing the impact of innovation and entrepreneurship." Chapter 15 in F. Phillips (ed.), *Managing Innovation, Technology, and Entrepreneurship*. Meyer & Meyer Media, Aachen, 2009.
- 24. Fred Phillips, "Pulling the threads together: New products and new firms." Chapter 16 in F. Phillips (ed.), *Managing Innovation, Technology, and Entrepreneurship.* Meyer & Meyer Media, Aachen, 2009.
- 25. L. Sieford and F. Phillips, "Profile of Abraham Charnes." In S. Gass and A. Assad (eds.), *Profiles in Operations Research*. Springer, 2010.
- F. Phillips, Sukaina Alarakhia, and Joy Limprayoon, "The Triple Helix: International Cases and Critical Summary." In D.S. Oh and F. Phillips (eds.) *Technopolis: Best Practices for Science & Technology Cities*. Springer (2014).
- 27. F. Phillips, "Toward a Sustainable Technopolis." In D.S. Oh and F. Phillips (eds.) *Technopolis: Best Practices for Science & Technology Cities*. Springer (2014).
- 28. F. Phillips and N. Sheikh, "Relocation Incentive Decisions: Opinions of economic development professionals."

In Zhenhua Chen, William M. Bowen and Dale Whittington (eds.) *Development Studies in Regional Science: Essays in Honor of Kingsley E. Haynes.* Springer. 2020. https://www.springer.com/gp/book/9789811514340

- 29. [in English] Introduction to Bible of STI Policy. Published in Iran in Persian (2019), later English edition planned.
- K.E. Haynes, F. Phillips & C.-Y. Yu, Recent Applications of Entropy in Social and Environmental Sciences, with Evaluative Comments. In Aura Reggiani, Laurie A. Schintler and Danny Czamanski (eds.) *Handbook on Entropy, Complexity and Spatial Dynamics*. Edward Elgar Publishing Ltd, 2021.
- 31. F. Phillips, B. Golany & J. Bard, Bubble planning and the mathematics of consortia. In Tugrul Daim, Marina Dabic, and Yu-Shan Su (eds.) *Routledge Companion to Technology Management*. Routledge, 2022.
- 32. Fred Phillips, Urusha Thapa, Benjamin Matheson, Yun Jeong Choi, Jeongeun Byun, & Eun Sun Kim, Why Don't Regional Innovation Systems Have Comprehensive Information Support? In D.S. Oh, F. Phillips, and A. Mohan (eds.) Smart City: Strategies for City Development and Innovation. World Scientific, Singapore, 2023, <u>https://doi.org/10.1142/9789811257186_0011</u>.

Book Reviews

- 1. Kessler, R.C. and D.F. Greenberg, *Linear Panel Analysis*. In *Journal of Marketing Research*, August, 1982. (Review by F. Phillips and V.L. Narasimhan)
- 2. Lester C. Thurow, *The Zero-Sum Society: Distribution and the Possibilities for Economic Change*. In *Economic Geography*, 1982. (Review by F. Phillips and H.O. Phillips)
- 3. S. Hawking, A Brief History of Time. In Computers, Environment and Urban Systems, 1990.
- 4. Richard A. Goodman and Michael W. Lawless, *Technology and Strategy: Conceptual Models and Diagnostics*. In *Interfaces*, 26:1, 134-136, Jan-Feb, 1996.
- 5. Chuck Pettis, *TechnoBrands: How to Create & Use "Brand Identity" to Market, Advertise & Sell Technology Products.* In *Interfaces*, 26:4, 88-89, July-Aug., 1996.
- 6. Cusumano, Michael A., and Richard W. Selby. 1995, *Microsoft Secrets: How the World's Most Powerful Software Company Creates Technology, Shapes Markets, and Manages People*. In *Interfaces* 27-3, May-June 1997, 101-103.
- Laszlo, Ervin, and Christopher Laszlo. 1997, The Insight Edge: An Introduction to the Theory and Practice of Evolutionary Management, Quorum Books, Westport, Connecticut. In Technological Forecasting & Social Change, 58, 321-322 (1998).
- Managing Technical Risk: Understanding Private Sector Decision Making on Early Stage Technology-Based Projects. Prepared for U.S. Department of Commerce Economic Assessment Office, Advanced Technology Program, National Institute of Standards and Technology, by Lewis M. Branscomb, Kenneth P. Morse, Michael J. Roberts, and Darin Boville. NIST GCR 00-787, April, 2000. In *Technological Forecasting & Social Change*, 69-2, February, 2002, pp. 217-221.
- 9. James, Jeffrey, *Technology, Globalization and Poverty*. Edward Elgar, Cheltenham, UK, 2002. In *Technological Forecasting & Social Change* 70 (2003) 493-496.
- Terence E. Brown and Jan Ulijn (eds.), Innovation, Entrepreneurship and Culture: The Interaction Between Technology, Progress and Economic Growth. Edward Elgar, Cheltenham, UK, 2004. Technological Forecasting & Social Change, Volume 72, Issue 2, (February 2005) 245-248.
- 11. Simon Commander (ed.), *The Software Industry in Emerging Markets*. Edward Elgar, Cheltenham, UK, 2005. *Technological Forecasting & Social Change*. Volume 74, Issue 1, January 2007, Pages 110-112.
- 12. Jonathan Peizer, *The Dynamics of Technology for Social Change*, iUniverse, Lincoln, Nebraska (2006) *Technological Forecasting and Social Change*. Volume 74, Issue 2, February 2007, Pages 238-239.
- 13. Vincent Ialenti, Deep Time Reckoning: How Future Thinking Can Help Earth Now. MIT Press, 2020. Technological Forecasting & Social Change, 2020.
- 14. F. Phillips, *The Code Breaker: Jennifer Doudna, Gene Editing, and the Future of the Human Race*, by Walter Isaacson. Simon & Schuster, 2021. *Technological Forecasting & Social Change* 188 (2023) 122309.

Cover Blurbs/Endorsements

- 1. Cover blurb for S. Yano, New Lanchester Strategy, Vol. 3 (Lanchester Press, Sunnyvale, CA, 1996).
- 2. Cover blurb for *Electronic Shock* by Michael deKare-Silver, 1998.
- 3. Cover blurb for Building Effective Questionnaires by Robert Peterson, 1999.

F. Phillips publications, page 11 of 17

- 4. Cover blurb for Zenwise Selling by Lee Godden, 2003.
- 5. Cover blurb for The Art of Business by Raymond Yeh, 2004.
- 6. Cover blurb for Semiconductor Front Runners Intel and Samsung: Past Successes, Present Dilemmas, Future Directions by Yong-In Shin, 2009.
- 7. Cover blurb for Bedtime Business Stories by Gary Hoover, 2021.

Policy Reports / Analyses

- 1. K.E. Haynes, J.E. Hazleton, F. Phillips, G.M. White, et al. "Establishing Operational Guidelines for Texas Coastal Zone Management". LBJ School of Public Affairs, Austin, 1974.
- 2. F. Phillips, *Texas Electronics Manufacturing: The Role of Higher Education*. IC² Institute of the University of Texas at Austin, December, 1989.
- 3. F. Phillips (ed.), "The Stateless Corporation and H.R. 4611 (Easing Antitrust Restraints on Joint Manufacturing Ventures)." IC² Institute, University of Texas at Austin, August, 1990.
- 4. F. Phillips (ed.), "The U.S.-Mexico Free Trade Agreement." IC² Institute, University of Texas at Austin, September, 1990.
- 5. "Toward Research and Policy Priorities for the Integrated North American Market." IC² Institute of The University of Texas at Austin, January, 1991.
- 6. F. Phillips, "A U.S. Perspective on Japan's Technology Policy." April, 1991. This roundtable appeared (in Japanese translation) in *JETRO SENSOR*, the magazine of the Japan External Trade Organization.
- 7. F. Phillips and Travis Hoppe, "White Paper on Building a U.S. Environmental Industry." IC² Institute, University of Texas at Austin, 1994.
- 8. F. Phillips, A. Roberts and M. Burningham (eds.), *Entrepreneurship and Intrapreneurship for Economic Growth and Quality of Life in Oregon and Southern Washington: International Benchmarks*. Oregon Graduate Institute of Science and Technology, October, 1999.
- Clyde Doctor, Marilynne Albers, Anne Marie Claire, Lynne Coward, Vern Faatz, Paul Fellner; Wade Fickler, Liv-Elsa Jenssen, Kurt Krause, David Mandell, Paul Manson, Paul Meyer, Fred Phillips and Sue Thomas, *The Portland Development Commission: Governance, Structure, and Process.* City Club of Portland Bulletin, Vol. 86, No. 34, January 21, 2005.
- 10. Deog-Seong Oh and F. Phillips, "Strategy and Implementation for UNESCO Global Innovation Forum." *Proceedings of the Preparatory Conference for Daejeon Global Innovation Forum*, 2013.
- 11. F. Phillips, "Editorial: State and Direction of the Journal, 2013." *Technological Forecasting & Social Change*, 82 (2014) 1–5.
- 12. D.-S. Oh, B.-J. Kang, F. Phillips, and S.-F. Kung, "Prospects for S&T Park in Indonesia." UNESCO, December, 2013.
- 13. F. Phillips and T. Daim, "Response to IARPA RFI-13-06, Analyzing S&T Activities: Forecasting S&T trends and milestones." October, 2013.
- 14. F. Phillips with Joy Walden, "Review of the Indonesia Technoparks Development Plan: Assessing Indonesia's Innovation System, with Special Reference to Technopark Strategy." UNESCO, 2018.
- 15. F. Phillips, B.Matheson, U. Thapa, Technology Commercialization in Regional Innovation Systems, with a Focus on Information Infrastructure. Korea Institute for Science & Technology Information (KISTI), 2019.

Magazine and Trade Magazine Articles

- 1. "Beyond Modernism, What?" (Letter) Harper's, March, 1985. https://archive.org/details/harpersmagazine270janalde
- 2. "Three Aikido Stories". Aikido Today Journal of the Aikido Association of America. 1st quarter, 1986.
- 3. "The Mind of the Warrior: Perceptions of U.S. Elite Forces in Popular Culture and in the Regular Forces". *Aikido Today* Journal of the Aikido Association of America. 4Q1986 and 1Q1987, in two parts.
- 4. "Marketing Productivity". Newsletter of the Austin Chapter of the American Marketing Association, 1987.
- 5. "Strategic Management in the Information Age", in *McEwen on Marketing*, Austin, Texas, January 1989.
- 6. "The Sword Symbol, Aikido and Madame Butterfly," lecture-demonstration in support of Austin Lyric Opera's production of Madame Butterfly, 1990. Reprinted in *Aikido Today*, 1990.

F. Phillips publications, page 12 of 17

- 7. "Technology Incubation, Japanese Style." IC^2 Technology Knowledge Access, January 1993.
- 8. "Abraham Charnes, 1917-1992." OR/MS Today, April, 1993, pp. 44-45.
- 9. F. Phillips, M. Harris and Eric Schell, "Critical Path Chicken." *IC*² *Technology Knowledge Access*, January 1994.
- 10. F. Phillips, "Measuring Trends: There Oughta Be a Law." Quirk's Market Research Review, Nov., 2002.
- 11. F. Phillips, "When the Going Gets Tough, the Tough Stay Centered." Hikari, July, 2003.
- 12. F. Phillips, "University-Industry Partnerships in Management Research: A Guide for Managers," to be published in *Points of View*, Cenquest's online managed education journal, 2003.
- 13. F. Phillips, "A Passing of Teachers." ELMAR Digest. Special issue #2005-2, 31 Dec 2004. www.ama.org/elmar/. Reprinted in American Marketing Association's *Marketing Power*, http://www.marketingpower.com/content28938C6626.php.
- 14. F. Phillips, "Adventures in Coverage." *Quirk's Market Research Review*, May, 2004, 40-44 (Published as "Have You Heard the One About the Diabetic Alligator?").
- 15. F. Phillips, "A Primer on Economic Development, Part I." *Tech Valley Times*, http://www.techvalleytimes.homestead.com, June, 2004.
- 16. F. Phillips, "Supporting Entrepreneurship: Central direction or laissez-faire?" in MsM-RITI Alumni Association "Knowledge Base," December 2005.
- 17. F. Phillips, "The Conscious Manager: Zen for Decision Makers." *Effective Executive*, vol.XI, No.5, May 2008, 40-49.
- 18. F. Phillips, ""Vision, and Changing the World." Leadership Excellence, 25(2) February, 2008, p.20.
- 19. F. Phillips, "If It Ain't Broke, Break It!" Leadership Excellence, 25(10) October, 2008, p.12.
- 20. F. Phillips, "A Warmer Capitalism: View of an American in Korea." *Effective Executive*, vol.XVI, No.2, June 2013, 7-9.
- 21. F. Phillips, "Innovation Ecosystems: Key idea or empty buzzword?" Research Europe, April, 2015.
- F. Phillips and D. Merchant, "The US Consumer Panel Industry, 1940-2000: Lessons for the Age of Big Data." American Business History Center, August 2019. https://americanbusinesshistory.org/the-usconsumer-panel-industry-1940-2000-lessons-for-the-age-of-big-data%C2%B9/
- 23. F. Phillips, Can O.R. and TA/TF Reconcile? *OR/MS Today*, June 2022. https://pubsonline.informs.org/do/10.1287/orms.2022.03.14/full/

Unpublished Working Papers (Not detailed)

Articles in (Non-refereed) Conference Proceedings (Not detailed)

Editorials, Op-Eds and Opinion Pieces

- 1. F. Phillips, "Take fuller advantage of what your organization already knows." *Portland Business Journal*, June 18, 1999, p.75.
- 2. F. Phillips, "Oregon's lack of investment means we're behind." *Portland Business Journal*, September 27, 2002, p.39.
- F. Phillips, "University-Industry Relations: An Open Letter to Industry," in *Points of View*, Cenquest's online managed education journal <u>https://ems.cenquest.com/research/articles.jsp</u> (subscriber password needed), 2003.
- 4. F. Phillips and B. Xu, "**范族中的前学阮**." Oriental Business, November, 2016.
- 5. C.H. Hsieh and F. Phillips, "MBA 該 改 變 了 嗎 ? " http://www.cheers.com.tw/article/article.action?id=5080885&from=line
- 6. F. Phillips with Meng-Yu Lin, "The End of Branding. 品牌的未來" Oriental Business, June 2017 issue, p. D.
- 7. F. Phillips and Cindy Chou, "The Sad State of Entrepreneurship." *Oriental Business*, 2017.
- 8. F. Phillips with Lily Teng, "A Silicon Harbor?" Oriental Business, 2018.
- 9. Linstone H.A., & Phillips, F. (2016) Joseph F. Coates: 1929 to 2014 an Appreciation. Technological

F. Phillips publications, page 13 of 17

Forecasting and Social Change, Volume 113, Part A, Pages 1-3.

- 10. Phillips, F. (2016) Hal Linstone (1924-2016): Remembrance. *Technological Forecasting and Social Change*, Volume 111, Page 1.
- 11. Phillips, F. (2019) 50 Years of *Technological Forecasting & Social Change*. TF&SC 50th Anniversary issue, Volume 143, June, Pages 125-131. https://doi.org/10.1016/j.techfore.2019.03.004.
- 12. Phillips, F. (2019) How to Publish in TF&SC. *Technological Forecasting & Social Change*, https://doi.org/10.1016/j.techfore.2019.05.022
- 13. Phillips, F. (2021) Passing the Baton: Phillips to Cunningham and Hu. Tech. Forecasting & Soc. Chge, Jan 2021.

Selected Keynote, Plenary, and Invited Talks

- 1. "A Technology Manager's Perspective on Forecasting." World Future Society, San Francisco, July, 1997.
- 2. "Three Unpopular Truths." Opening talk at Symposium/Workshop on Technology Entrepreneurship For Economic Growth And Quality Of Life in Oregon and Southern Washington, Portland, October, 1999.
- 3. "The Austin Experience." Plenary panel at National Association of State Seed and Venture Funds, Austin, November 1999.
- 4. "Technology Opportunities in Latin America and Asia for New Mexico Companies." New Mexico International Trade Conference, Albuquerque, January, 2000.
- 5. "The Business Model." Venture Capital Conference, Portland, June, 2000.
- 6. "Sustainability of Regional Initiatives for Technology Entrepreneurship." EFMD 35th EISB Conference "Sustaining the Entrepreneurial Spirit over Time," Barcelona, September 12-14, 2005.
- 7. "Inter-institutional Relationships in a Shrinking World." Maastricht School of Management Partners' Conference 2008.
- 8. "Meta measures for technology & environment." Keynote Address, IM2012 Innovative Methods for Managing Innovation, Beijing, May 2012.
- 9. "Ways of Looking at the Future." Keynote Address, Chinese Society for Management of Technology, Taoyuan, Taiwan, November 2012.
- 10. "Technology Colonization." Keynote Address, ISPIM the International Society of Professional Innovation Managers, Seoul, December 2012.
- 11. "Technopolis and Economic Development." World Technopolis Association workshop, Gliwice, Poland, September 2012.
- 12. "Risk, Values, and Sustainability." Invited keynote at Inha University's Sustainable Asia Conference, June 29, 1013.
- 13. D.S. Oh and F. Phillips, "Strategy and Implementation for Global Innovation Forum." Preparatory Conference for UNESCO Global Innovation Forum, Daejeon, September 2013.
- 14. "The Creative Science City." Cheonan International Science Conference, Cheonan S. Korea, November 2013.
- 15. "A Life in Systems." Seoul National University, November 2013.
- 16. "Perspectives on Triple Helix." Keynote, Asian Triple Helix Society, Taegu, December 2013.
- 17. D.S. Oh and F. Phillips, "Sharing Innovation's Benefits." 2nd UNESCO Global Innovation Forum, Daejeon, September 2015.
- F. Phillips and H. Linstone, Key Ideas from 25 years at Technological Forecasting & Social Change. International Academic Conference on Economic and Social Development, Higher School of Economics, National Research University, Moscow, Apr.19-21, 2016.
- Socio-economic impact of mobile technology and implications for ASEAN. QualComm-Lee Kwan Yew School Research Conference on: "Socio-Economic Impacts of Mobile Communications: Implications for ASEAN" 22-23 April, 2016, National University of Singapore.
- 20. Start-ups in the regional innovation system: What's new? Entergrow Project, VTT Helsinki, June 2016.
- 21. F. Phillips and D.-S. Oh, The Future of Technology Assessment: A Manifesto for Decentralization. IPP World Forum on Order and Governance in the Contemporary World, Guangzhou, China, Aug 20-21, 2016.
- 22. Technopolis Trends and Challenges. Ministry of Science & Technology, Taipei, Aug.2016.

F. Phillips publications, page 14 of 17

- 23. F. Phillips and D.-S. Oh, Cluster or Diversify? A dilemma for sustainable local techno-economic development. Tangerang Selatan, Indonesia, UNESCO Global Innovation Forum, Sep. 20-23, 2016.
- 24. The Circle of Innovation: Implications. Keynote talk at Sungkyungkwan University MOT Department 10th Anniversary Celebration, Suwon, Korea, October, 2016.
- 25. Perspectives on Big Data. Chinese Society for Management of Technology (CSMOT), Taichung, Taiwan, November 4-5, 2016.
- 26. "Implementation of Innovation clusters to promote the quality of STP companies. Annual conference of Iranian Science and Technology Parks and Incubators managers. 20-21 Feb. 2017 at Qeshm Island, Iran.
- 27. Strategy in the Knowledge Economy. Keynote at Conference in Honor of Ikujiro Nonaka, Tsinghua University, Beijing, March 16-17, 2017.
- 28. A theoretical foundation for understanding university-industry collaboration, particularly in Asia. Taipei, QS Asia, Mar.29-31, 2017.
- 29. How the Knowledge Revolution Will Change Urban and Global Geography. Keynote at Regional Science Association International, Tainan, Taiwan, May 2017.
- 30. Innovation for Sustainability. Workshop on climate adaptation, Chinese Academy of Sciences, August 2017.
- 31. Multiplicity and Divergence Challenge the Social Sciences. Kondratieff Laureate Lecture presented at the 10th International Kondratieff Conference "Academic Heritage of N. D. Kondratieff and the Present," dedicated to the 125th Kondratieff anniversary. Moscow, September, 2017.
- 32. F. Phillips and Lan Anh Alice Nguyen, "WHAT THE FUTURE HOLDS: Preliminary Look at Global Trends in Innovation. 2017 UNESCO-WTA International Training Workshop, Daejeon, ROK, September 11-14, 2017.
- 33. Asia's Technology-Driven Futures. KAIST Forum on Asia's Futures, Seoul, December 2018.
- Scientific Collaboration with China. China-UK Science, Technology and Innovation Cooperation: The Next 40 Years. July 2019, Queen Mary, University of London.
- 35. We've Come a Long Way. Where to now? Or, I like IKE. INEKA/ACIEK Medal Acceptance Address, Verona, Italy, June 2019.
- 36. Complexity and the Future. 6th International Forum on Intellectual Property and Technology Management. Hsinchu, Feb. 3, 2020.
- 37. Advice for Entrepreneurs at the Threshold of the 2020s. 1st Conference of Research in Entrepreneurship, Education and Technology (CREET), May 28, 2020. University of Ottawa.
- Information for Regional Innovation Systems. Joint conferences of FEMIB2020 (2nd International Conference on Finance, Economics, Management and IT Business) and ICEIS (22nd International Conference on Enterprise Information Systems), May 5, 2020.
- 39. Sept. 25, 2020. Eurasia Foundation / Middlesex University London, "An MOT Prof's Sojourns in East Asia"
- 40. Nov. 6, 2020. Korean Association of Business Educators (KABE) "Peace Engineering"
- 41. Nov. 11, 2020. Georgia Tech's Global Tech Mining Conference, Beijing http://www.gtmconference.org/ "Seeking leverage for the SDGs"
- 42. Nov. 24, 2020. Wittenburg University Consortium, Netherlands. "What About the Future?"
- 43. Nov. 25, 2020. Korean Innovation Foundation, "COVID-19 and Sustainable Innovation Community"
- Nov. 27, 2020. International Conference on Identification, Information and Knowledge in the Internet of Things (IIKI), Zhuhai. http://bigdata.bnu.edu.cn/IIKI2020/ "Business Cycles and the Leapfrog Theory of Scientific Advance"
- 45. University of Bridgeport Engineering School, Feb. 11, 2021. "Seeking leverage for the SDGs."
- July 2021, 2020. Society for Open Innovation, Riga. http://openinnovationtmc.org/HOME/soitmc/sub/sub.htm?nav_code=soi1579073888 "Interconnections: A systems history of science, technology, leisure, and fear."
- 47. March 1, 2023. Sustainable Business: Lying, Crying, or Honestly Trying? 6th Conference on Business & Economics, Dhaka, Bangladesh.

Blogs and Preprints

70+ blogs and preprints on ResearchGate, LinkedIn, and Science20.com

FRED YOUNG PHILLIPS

Teaching and Degree Supervision

Undergraduate:

Current Issues in Business Economics (University of Texas at Austin) Quantitative Methods in Management (St. Edwards University) Intro to Modern Engineering (Stony Brook University) Technology & Innovation Management (Yuan Ze University) Business and Society (Yuan Ze University)

Honors (upper division U.T. "Plan II") Undergraduate:

Member of teaching team for course "The Subtlety of Nature: Predictability and Chaos." Other team members were Ilya Prigogine, Bob Herman, and Betty Sue Flowers.

Master's level (* Designed and taught these new courses): Introduction to Computing* Production and Operations Management Management Science Special Studies in Marketing International Mgt. in Science & Technology Software Commercialization* Management Information Systems Incubator Lab-Marketing Advanced Technology* Seminar in Business and Social Systems Making Decisions Roadmapping Your Business

Doctoral:

Special Studies in Marketing Research Methods Technological Creativity & Innovation Technology Forecasting Quantitative Methods in Management Managing the Product Cycle* Special Studies in Management Technology Management* Market Research Ethics & Social Issues in Management Marketing Management Systems Thinking Leadership Technology & Industry Structure

Intercultural Technology Transfer Dissertation Process Business and Social Systems

Industrial/Professional/Executive Training:

SAS and Multivariate Statistics (MRCA Information Services).
Data Analysis and Marketing Decisionmaking Issues (Levi-Strauss; others).
The Service Sector and Economic Development (1990, through Continuing Education Offices of Indiana University and the University of Oklahoma).
Technology and the New Economic Order (US Army Senior Service College)
Technology Management (UT-Austin Graduate School of Business)
Entrepreneurship as Program Management
Japanese and US New Product Development (UT-Austin IC² Institute)
Globalization and the WTO (at OGI)
Services Productivity (Singapore Management University)

Teaching testimonials

I

- Review in the newsletter of the Tech. Assoc. of Oregon of The Conscious Manager: "If you've ever been in Fred's classroom, as I have, you'll find the same approach here: intelligent, conversational, challenging."
- A comment from a student in 2002: "My compliments on your performance: other than a few minor drawbacks, the course was very well organized. A pleasant change from many other courses we take. And you handled all complaints, challenges and difficult situations most admirably."
- In 2004: "I found your patient teaching methods of eminent value and have gained much from your (at times stoic) understanding manner. Starting up at 49 was an effort (to say the least!) and I believe that your instruction has been instrumental in allowing me to come as far as I have in this short time. It takes a very advanced teacher to know how to generate the appropriate energies for a room full of individuals to prosper at their respective paces, in their own space and style... I would like to thank you for your efforts, patience and creative training."
- From 2005: "I wish to express my delight in the Market Research course work. I remain fully indebted to your effort. I have been recently recruited at the AC Nielsen Company. Your [teaching] will continue to play a part in my new challenges."
- 8/8/08: "I would like to thank you for being my chair and assist me to get through until today. I deeply appreciate your kind support and assistance. Several students are jealous of me that I have you to be my chair. I'm really proud of that."
- Spring '08: "Great class. It's tough to make this course exciting." "Dr. Phillips did an outstanding job. Thanks for sharing your extensive knowledge and experience. Look forward to working with you in the future."
- From Dr. Herbert Baker, Program Director, May, 2008: "Fred: Many, many thanks for your excellent presentation at our Professional Practice Meeting! I heard many complimentary comments. Our professional practice requires just the kind of combined expanded thinking and self-awareness that were exemplified in your presentation. I was delighted with your presentation, and personally challenged to rededicate my efforts."
- May 06, 2008 Our distinguished Dr. Phillips, million thanks for teaching me such valuable lesson! If you ever need voluntary research assistant, please let me know, dear Dr. Phillips! Again, words can not express my gratitude!! To an outstanding dean and a great inspiration: You!!! Bestest from your Number 1 fan."
- Spring, 2014: "Our learning was based on Professor's experience and knowledge, a lot more interesting [than] learning from a textbook. Professor gave a clear idea of what technopolis is all about, and what's [needed] for economic development."
- 10/2014: "Hi Dr. Fred, I have attended your course in Egypt while I was enrolled @ the Maastricht DBA program. I am currently approaching the end of my DBA thesis @ University of Liverpool. I just wanted you to know that you are one of the very few professors that I have truly learned from. I really don't have any idea why I am telling you that now after almost 5 or 6 years, but I just wanted to let you know."
- 2015: I feel lucky to be your student. I am grateful to you for all the lessons and the advices you gave me. -H. Thanh
- 2017: I would like to [express] my gratitude toward your kind teaching and guidance. -T. Lee.
- 2017: Fred, you are a good Prof. and always try to help all the students.
- 2017: I'd really like to give thanks to you for what you have taught and advised in SUNY. I'd be very appreciated if I could keep in touch with you onwards, Dr.Phillips, still continuing my learning from the great professor. -K. Kim
- 2017: Thank you for inspiring us for the whole semester. -C.Toh
- 2018: Dear Fred, I followed your course in Technology and Innovation at Yuan Ze University. I'm still building on those insights and they are very valuable for my masters in Sustainability, so thanks again! Kind regards, Anouk H.
- 2018: Thank you very much for the insight and experience you shared with us this semester. It inspired me to do more quantitative research in the future. Wish you could stay longer [in Taiwan], it is our pleasure to have you with us!
- 2020: Thank you for this course, it had a profound impact on how I think about the world in terms of technology, society, and my place in it. Jaren Trost

Degree Committees and Supervisions

□ Many Master's degree supervisions.

- Doctoral committees at University of Texas at Austin
 - Naras Eechambadi, Applications of Data Envelopment Analysis in Marketing, 1987.
 Jeff Amos, Agile Manufacturing in Aerospace, 1994.
 - Doctoral supervisions at Maastricht School of Management
 - o Vanessa Borg, Stewardship as a Management Principle in the Hospitality Industry
 - o Jaime Mujica Oviedo, Entrepreneurial success factors in the Peruvian context
 - o Rolando Liendo, A framework for the start-up of software exports by small Peruvian software companies
 - o David Dingli, Manufacturing competence in Malta: impact on business performance and competitiveness
 - o Alejandro Antonioli, Model to assign the right academic fees according to family socio-economic situation
 - o Flavio Rodriguez Robles, Marketing Orientation, Strategic Flexibility, and Performance
 - o María Gabriela Lock Gallegos, Determinants of Innovation Leadership among Peruvian Firms
 - Eko Infradjit Wrijonoputro, Accelerating the Adoption of Electronic Government Through Public-Private Partnerships: The Case of Indonesia
 - o Poltak Nababan, Business Transformation: Impact of Culture on e-banking diffusion
 - Nga Pham, A paradigm shift in public management training for urban management: The case of Vietnam Doctoral supervisions at Alliant International University
 - Pornpimol "Joy" Limprayoon, Trends in Corporate and Social Attitudes toward the Treatment of Public Resources, the Environment, and Externalities, 2009.
 - o Bing Fei "Edwin" Wang, Changing Consumer Cognition in China, 2010.

F. Phillips Teaching; Research Grants & Contracts, page 3 of 3

- Paveena Tanvilai, The Future of Desalinization in California, 2012.
- o Shameem Heetun, Inter-agency Cooperation During Disasters, 2015.
- Doctoral committees at Stony Brook University and Skoltech: Daniel Chang, Sehee Park, Jinwon Chang, Maksim Malyy

GRANTS and CONTRACTS as P.I. or co-P.I.

- 2019 Korea Institute for Science & Technology Information (KISTI) \$53,000 for information infrastructure for regional innovation systems.
- 2019 Chinese Academy of Sciences. \$240,000 for 3 years, for Sustainable Development Goals research.
- 2017 **Ministry of Science & Technology** (Taiwan) NTD500,000 for Visiting Professorship at National Chengchi University.
- 2017 **Ministry of Science & Technology** (Taiwan) NTD850,000 for International Conference on Technology Policy & Innovation.
- 2012 National IT Promotion Agency (Korea). \$2Million for Specialized Software Graduate Program.
- 2006 **Province of Limburg.** €100,000 for Limburg-China Expert Center, with follow-ons for expected total funding of €1M.

1997, 1999, 2000, 2003, 2004 CIBER (University of Washington). \$500-\$3,000 each

- International collaboration in online education in technology management.
- Benchmarking worldwide technopolis development.
- World Trade Organization impact on technopolis.
- Teaching modules for The Conscious Manager: Zen for Decision Makers
- Further module development for Zen decision making.
- 2002 City of Beaverton \$2500. Report on city investments in new business incubators.

2000 NSF, \$800,000 / 3 years, Grant No. 9983518. Advanced web portal technology for US Forest Service.

- 2000 **Nieman Foundation** \$26,000/ 1 year. With Technion (Haifa) and IC² Institute of University of Texas at Austin. Optimal consortium formation, budgeting.
- 2000 Office of the Chancellor, Oregon University System. \$5,000. University-connected new business incubators.
- 1999 Washington-Multnomah Counties Regional Strategies Program. \$40,000. "Enhanced Economic Development In The Portland Region Through Technological Entrepreneurship,"
- 1997 International Council of Shopping Centers Educational Foundation. \$9500 / 1 year. Electronic Retailing.
- 1997 US Display Consortium / DARPA. \$50,000/ 2years. Study international competitiveness of US display industry.
- 1995 Air Force Office of Scientific Research (AFOSR). \$2,600,000. Continuation of study of Japanese technology management methods.
- 1992 AFOSR. \$2,600,000. Japanese technology management methods.
- 1991 Japan External Trade Organization, \$6,000. "A U.S. Proposal to Japan on Technology Policy."

1990 NSF \$75,000. "Concurrent Engineering Design."

- 1990 Software grant from Mapping Information Systems Inc., \$1500
- 1989 Department of Defense, \$110,000. "Executive Information System for Policy Evaluation."
- 1975 Toyota Fellowship for Economics Research. \$5,000.
- 1967 National Science Foundation Fellowship in Industrial Engineering. \$1,200.

REFERENCES for Dr. Fred Phillips

- **Dr. Kingsley E. Haynes**, Dean Emeritus, School of Public Policy, George Mason University, 703-993-2280, <u>khaynes@gmu.edu</u>. Dr. Haynes is former Dean of Graduate Studies at GMU, and former President of the Western Regional Science Association.
- **Dr. Robert A. Peterson,** John T. Stuart III Centennial Chair in Business, Former Director of IC² Institute and former Associate VP-Research at University of Texas at Austin. <u>rap@austin.utexas.edu</u>, +1 512 471 9438.
- **Dr. Deog-Seong Oh,** President, Woosong University; President Emeritus, Chungnam National University, Daejeon, S. Korea, <u>ds_oh@cnu.ac.kr</u>
- Dr. Nasir Sheikh, University of Bridgeport (retired) 503 880 3380; nasirsheikh5@gmail.com
- **Dr. Patrick Brockett**, Gus Wortham Memorial Chair in Risk Management and Insurance, University of Texas at Austin. brockett@mail.utexas.edu. 512 471 6816 or 512 471 3322.
- **Dr. Ronald Tuninga,** Vice President Academic Affairs at Wittenborg University of Applied Sciences, The Netherlands. <u>tuninga@xs4all.nl</u>.
- Dr. Steven Walsh, Distinguished Professor, University of New Mexico. <u>Swalsh91@comcast.net</u>, 505-681-4835.
- Dr. Fang-Mei (Grace) Tseng, Provost, Yuan Ze University, fmtseng@saturn.yzu.edu.tw.
- Prof. Dundar Kocaoglu, Emeritus Head of the Department of Engineering & Technology Management, Portland State University, Chairman of the Portland International Conferences on Management of Engineering and Technology (PICMET), and former Editor-in-Chief of *IEEE Transactions on Engineering Management*: <u>kocaoglu@etm.pdx.edu</u>. Tel. 503-725-4660; Fax 503-725-4667. Department of Engineering & Technology Management, Portland State University, PO Box 751, Portland, OR 97207-0751
- Dr. Alvin Tong, Executive Vice President (retired), Acer Computer, Taiwan. 503 201 5512; tongalvin@comcast.net.
- **Dr. Neil Berglund** cell 360-903-9233, <u>neil@nwtgc.com</u>, 3135 NW Lacamas Drive, Camas, WA 98607. After careers at Northern Telecom, Intel, and JDS Uniphase, Dr. Berglund founded Ateq Corp. and many other venture-funded high technology companies. He served as head of the electrical engineering department at Oregon Graduate Institute of Science & Technology, and also holds a faculty appointment at Stanford University.

The University of Texas at Austin

has conferred on

Fred Young Phillips

Ductor of Philosophy the degree of

and all the rights and privileges thereto appertaining. In Mitness Thereof, this diploma duly signed has been issued and the seal of the University affixed.

Jesuch by the Santh of Asgents upon Recommendation of the Saculty on this imeniy-third day of Berember, A.B. 1978.

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