

Dr. FRED PHILLIPS is the 2017 winner of the Kondratieff Medal, awarded by the Russian Academy of Sciences. He joined Yuan Ze University in 2015 as Distinguished Professor. Earlier he was Professor and Program Chair at State University of New York at Stony Brook; 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. He is also a Senior Fellow (and formerly Research Director) at the IC² Institute of the University of Texas at Austin, and a PICMET Fellow. He is an Expert Advisor to the Chinese Academy of Sciences.

In New York, Texas, Oregon, Holland and Korea, he has been a leader in developing graduate management curricula for employees of international and high-tech companies. His contributions in operations research 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 Stonybrook, 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 of Elsevier's international journal *Technological Forecasting & Social Change*, which Reuters ranks as #4 of 55 planning and development journals, and #25 of 119 business journals. He authored the textbook *Market-Oriented Technology Management* (Springer 2001), the popular title *The Conscious Manager: Zen for Decision Makers* (General Informatics 2003), and a book on high-tech economic development, *The Technopolis Columns* (Palgrave 2006).

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, and CENTRUM Católica in Peru.

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, Argentine tango, travel and writing.

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Expertise

- *Successful leadership*, organization-building and research management experience in academe and industry.
- *Experience managing multinational researchers*, multidisciplinary projects, and alliances.
- *Academic authority*. 90+ refereed academic publications; many articles and books for managers. Won and managed multi-million-dollar research grants from NSF, other agencies.
- *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, Peru, Brazil, parts of Africa. Language competence (rusty) in Spanish, French. Rudimentary Japanese.

Education

University of Texas at Austin

- Ph.D. Management Science / Operations Research, under Abraham Charnes, UT-Austin, 1978.
Dissertation: *Some Information-Theoretic Methods for Management Analysis in Marketing and Resources*
 - 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 Experience

Yuan Ze University: Distinguished Professor, Far Eastern Group Endowed Chair, and Head of International College 2015-present

SUNY Stony Brook: Visiting Professor 2011-present

Founding Korea Programs Chair, Dept. of Technology & Society, College of Engineering & Applied Sciences. 2011-14

- Founded BS, MS, PhD programs at SUNY's Korea campus, attracting outstanding faculty and students.

Alliant International University, San Diego, California

Vice Provost for Research and Professor of Management 2006-2007

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

Professor of Management. 2006-2011

Maastricht School of Management, Maastricht, Netherlands

Associate Dean and Professor 2004-2006

- 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.

Professor of Marketing, Entrepreneurship, and Research Methods 2004-2012

Oregon Health & Science University, Portland, OR

Research Professor (zero-time) 2004-06

Professor of Management and Head of the Department of Management in Science and Technology 2001-04

- 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."

Oregon Graduate Institute of Science and Technology (OGI), Portland, OR

Professor of Management and Head of the School of Management 1995-2001

- Bootstrapped new M.S. in Management program to three campuses, 250 students and financial stability.
- Started department's funded research, executive education, entrepreneurship, distance learning programs.
- Helped guide OGI through its merger with Oregon Health & Science University.

Battelle-Pacific Northwest Laboratories, Richland, WA

Affiliate Staff Scientist (Courtesy appointment) 1995-2004

The University of Texas at Austin 1989-95

Senior Research Fellow, IC² Institute, 1984-present. **Research Director, IC² Institute**, 1989-95.

Associate Director (for Informatics Research), **Center for Cybernetic Studies** 1989-95

Senior Lecturer, Departments of Marketing, Management Science/Information Systems, Economics 1989-95

- Coordinated one hundred IC² Institute Fellows - including winners of the Nobel Prize, Von Neumann Medal, etc. - in many scientific fields.
- Co-P.I. on \$5 million in AFOSR grants for Japan Technology Management studies.
- 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.

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 Assistant 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/developer 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 and others.
- 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 University of Hawai'i Manoa, 2001-02; SUNY Stony Brook, 2001-02; St. Edward's University; General Motors Research Laboratories; Universities of Aston and Birmingham (England); Underwriter's Laboratories, Inc.; Northwestern University.

Academic and Career Honors

- Honored with the Kondratieff 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 (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) for favorable review as a highlight of the 1999 innovation literature.
- IC² Institute award for research in technology commercialization, 1996.
- Society of Actuaries Award for best paper in any of the Society's journals in 1996.
- Nominated for 1995 Ernst & Young Entrepreneur of the Year Award (Educator division).
- Member of worldwide teaching standards committee for Aikido Association of America.
- Who's Who in Engineering Education, 2012.

Professional Affiliations

- INFORMS; AAAS; PICMET; ISPIM; Western Regional Science Assoc.; Int'l Society for Systems Science. Formerly: AMA; Northwest International Business Educators Network; Information Industry Assoc.

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.
- Contributor panel, Global Forum on Agricultural Research Glossary of Futures Studies, 2013-14.

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

- Board of Directors/Advisors of San Diego World Affairs Council, Alliances for Discovery, Cenquest Corp., The Software Quality Institute, Austin Software 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.
- Editor-in-Chief of *Technological Forecasting & Social Change*. Editorial board, *Int'l Jour. of Global Environmental Issues*; *Jour. of Technology Management for Growing Economies*; *Foresight and STI Governance*. Scientific Board, *Jour. Centrum Cathedra*; National Research University (Moscow) book series *Science, Technology and Innovation Studies* (Springer). Honorary Editor, *Jour. Open Innovation*. Advisory Board, *International Journal of Innovation Studies* (Tsinghua University and Chinese Academy of Sciences) and *International Journal of Innovation and Technology Management*.
- 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-Economic Planning Sciences*, *Internat'l Jour. of Innovation and Tech. Mgt.*, *African Jour. Bus. Mgt.*, *Systemic Practice & Action Res.*, *Jour. of Engineering and Technology Mgt.*, other journals.

Selected Consulting

- ***Planning & Policy:*** Office of the President of Rwanda, 2013. Vice Presidency of Iran, 2014-15.
- ***High Tech Regional Economic Development:*** 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.
- ***Research and Publishing:*** Elsevier's *Sci-Topics Pages*; Pontificia Universidad Católica del Perú, 2006-present; 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 Superior 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; Intelliquiest, 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.

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*, 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.
13. 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.
18. 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 Note". *Geographical Analysis*, Vol. 19, No. 1, January 1987.

21. 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.
27. 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.
28. 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.
30. 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, "Conditional Information Characterization of Brand Shifting in a Hierarchical Market Structure." *Journal of the Operational Research Society*, Vol.45, No.8, pp.901-915, 1994.
33. 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.
34. 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-to-analyzing-brand-switching-matrices/>
36. 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.
37. with B. Golany and J.J. Rousseau, "Optimal Design of Syndicated Panels." *European Journal of Operations Research* 87 (1995) 148-165.
38. 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.
40. 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.

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.
 55. 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.
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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.
 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.
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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.
3. F. Phillips, "University-Industry Relations: An Open Letter to Industry," in *Points of View*, Cenquest's online managed education journal <https://ems.cenquest.com/research/articles.jsp> (subscriber password needed), 2003.
4. F. Phillips and J. Hsieh, *Business Schools in Crisis*. *Oriental Business*, Hong Kong, forthcoming 2016.

Selected Keynote, Plenary, and Invited Talks

1. F. Phillips, "A Technology Manager's Perspective on Forecasting." World Future Society, San Francisco, July, 1997.
2. F. Phillips, "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. F. Phillips, "The Austin Experience." Plenary panel at National Association of State Seed and Venture Funds, Austin, November 1999.
4. F. Phillips, "Technology Opportunities in Latin America and Asia for New Mexico Companies." New Mexico International Trade Conference, Albuquerque, January, 2000.
5. F. Phillips, "The Business Model." Venture Capital Conference, Portland, June, 2000.
6. F. Phillips, "Sustainability of Regional Initiatives for Technology Entrepreneurship." EFMD 35th EISB Conference "Sustaining the Entrepreneurial Spirit over Time," Barcelona, September 12-14, 2005.
7. F. Phillips, "Inter-institutional Relationships in a Shrinking World." Maastricht School of Management Partners' Conference 2008.
8. F. Phillips, "Meta measures for technology & environment." Keynote Address, IM2012 Innovative Methods for Managing Innovation, Beijing, May 2012.
9. F. Phillips, "Ways of Looking at the Future." Keynote Address, Chinese Society for Management of Technology, Taoyuan, Taiwan, November 2012.
10. F. Phillips, "Technology Colonization." Keynote Address, ISPIM the International Society of Professional Innovation Managers, Seoul, December 2012.
11. F. Phillips, "Technopolis and Economic Development." World Technopolis Association workshop, Gliwice, Poland, September 2012.
12. F. Phillips, "Risk, Values, and Sustainability." Invited keynote at Inha University's Sustainable Asia Conference, June 29, 2013.
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. F. Phillips, "The Creative Science City." Cheonan International Science Conference, Cheonan S. Korea, November 2013.
15. F. Phillips, "A Life in Systems." Seoul National University, November 2013.
16. F. Phillips, "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.
18. 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.
19. F. Phillips, 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. F. Phillips, 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. F. Phillips, Technopolis Trends and Challenges. Ministry of Science & Technology, Taipei, Aug.2016.
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. F. Phillips, The Circle of Innovation: Implications. Keynote talk at Sungkyungwan University MOT Department 10th Anniversary Celebration, Suwon, Korea, October, 2016.

25. F. Phillips, 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 to be 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.

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* | Quantitative Methods in Management |
| Production and Operations Management | Managing the Product Cycle* |
| Management Science | Special Studies in Management |
| Special Studies in Marketing | Technology Management* |
| International Mgt. in Science & Technology | Market Research |
| Software Commercialization* | Ethics & Social Issues in Management |
| Management Information Systems | Marketing Management |
| Incubator Lab-Marketing Advanced Technology* | Systems Thinking |
| Seminar in Business and Social Systems | Leadership (2009) |
| Making Decisions | Technology & Industry Structure |

Doctoral:

| | |
|---------------------------------------|-----------------------------------|
| Special Studies in Marketing | Intercultural Technology Transfer |
| Research Methods | Dissertation Process |
| Technological Creativity & Innovation | 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) and others

Teaching testimonials

- 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 technical glitches and some other 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 as always. You know, 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 reading 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.”

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
 - Vanessa Borg, *Stewardship as a Management Principle in the Hospitality Industry*
 - Jaime Mujica Oviedo, *Entrepreneurial success factors in the Peruvian context*
 - Rolando Liendo, *A framework for the start-up of software exports by small Peruvian software companies*
 - David Dingli, *Manufacturing competence in Malta: impact on business performance and competitiveness*
 - Alejandro Antonioli, *Model to assign the right academic fees according to family socio-economic situation*
 - Flavio Rodriguez Robles, *Marketing Orientation, Strategic Flexibility, and Performance*
 - 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*
 - 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.
 - Bing Fei “Edwin” Wang, *Changing Consumer Cognition in China*, 2010.
 - Paveena Tanvilai, *The Future of Desalination in California*, 2012.
 - Shameem Heetun, *Inter-agency Cooperation During Disasters*, 2015.
- ❑ Doctoral committees at Stony Brook University (in progress): Daniel Chang, Sehee Park, Jinwon Chang
- ❑ Doctoral committees at Yuan Ze University (in progress): Mahmoud Abdullah El Akhdary

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

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 (JETRO)**, \$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**, Acting President of Clarewood University, former Dean, School of Public Policy, George Mason University, 703-993-2280, khaynes@gmu.edu. 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. rap@austin.utexas.edu , +1 512 471 9438.
- **Dr. David Ferguson**, Chair, Department of Technology & Society, College of Engineering and Applied Sciences, Stony Brook University, and Associate Provost for Diversity and Inclusion. David.Ferguson@stonybrook.edu , 631-632-8763.
- **Dr. Deog-Seong Oh**, President, Chungnam National University, Daejeon, S. Korea, ds_oh@cnu.ac.kr
- **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.
- **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*: kocaoglu@etm.pdx.edu . Tel. 503-725-4660; Fax 503-725-4667. Department of Engineering & Technology Management, Portland State University, PO Box 751, Portland, OR 97207-0751
- **Dr. Ted Teng**, Professor, Department of Technology & Society, College of Engineering and Applied Sciences, Stony Brook University, Room 331 Harriman Hall, Stony Brook NY 11794-3760. ted.teng@stonybrook.edu, 631 632 8962 .
- **Dr. Alvin Tong**, Executive Vice President (retired), Acer Computer, Taiwan. 503 201 5512; tongalvin@comcast.net.
- **Dr. Ronald Tuninga**, Former Director-Dean, Maastricht School of Management, the Netherlands. Now Pro Vice Chancellor Enterprise & Dean Faculty of Business and Law at Kingston University, Kingston upon Thames, UK. tuninga@xs4all.nl.
- **Dr. Neil Berglund** cell 360-903-9233, neil@nwtgc.com, 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.
- **Dr. Dale Weight**, dweight@willamette.edu or GDWCKW@aol.com. 14130 Kimberly Circle, Lake Oswego OR 97035, tel. 503-629-2029. Dale is Dean Emeritus of the Atkinson Graduate School of Management at Willamette University, and was formerly chair of the Oregon State Board of Education and board member of the Federal Reserve Bank of San Francisco.

The University of Texas at Austin

has conferred on

Fred Young Phillips

the degree of

Doctor of Philosophy

and all the rights and privileges thereto appertaining.

In Witness Whereof, this diploma duly signed has been issued and the seal of the University affixed.

Passed by the Board of Regents upon Recommendation of the Faculty
on this twenty-third day of December, A.D. 1978.

Alan Shivers

Chairman, Board of Regents

Ed Walker

Chancellor, The University of Texas System



Loraine L. Rogers

President

William C. Lieb

Vice