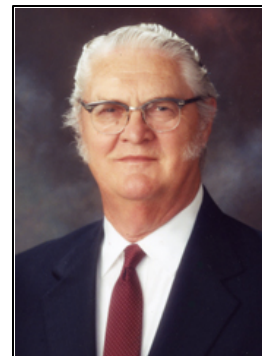


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CURRICULUM VITAE
JOSEPH V. SWINTOSKY, Ph.D.
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Professional: Emeritus Dean and Professor of Pharmacy, College of Pharmacy, University of Kentucky, Lexington, KY. Retains professional office at the College of Pharmacy.

Personal: Born, December 14, 1921 in rural Kewaunee County Wisconsin, near the City of Green Bay, Wisconsin
Married to Dorothy (Zevnik) Swintosky.
Parents of 9 sons and 1 daughter.

Education: Public Schools, Kewaunee, Wisconsin, 1926-38
Started pharmacy school education at the University of Wisconsin-Madison, 1938
B.S., Pharmacy, University of Wisconsin, 1942.
Ph.D., Pharmacy, University of Wisconsin, 1948.

1941 First elected president of the University of Wisconsin Pharmaceutical Society.

Employment:

1942 Started graduate studies in pharmacy with annual stipend of \$300 at the University of Wisconsin (UW)

1943-45 Hospitalized with tuberculosis at Statesan, Wisconsin.

1945-48 Assumed position during 1945-48 of Part-Time Lecturer in a) pharmaceutical organic chemistry and b) pharmacy, while continuing graduate study at UW. Carried some responsibilities of Full-Time Faculty when, during, and after WWII, faculty ranks were depleted with some pharmacy faculty gone to war.

1947-48 American Foundation for Pharmaceutical Education (AFPE) Fellow.

1948-53 UW Assistant Professor of Pharmacy and Pharmacognosy.

1953 Joined Smith Kline & French Labs (SK&F) in R&D, in Philadelphia, Pennsylvania, on July 1, 1953, after taking leave of absence from UW. Did not return to ranks of faculty at UW.

- 1953-66 Started as Senior Scientist, and then in 1954 became R&D Group Leader for Tablets, Capsules, and Powders. For various prolonged periods during 1954-66 also became Program Team Director for research programs in a) Time Action Principle (oral sustained release product theory and technology), b) Formulation Principle, c) Prodrugs, and d) Drug Absorption Principle.
- 1960-66 Served as Principal Research Pharmacist for several years, then as Section Head for Pharmaceutical Research in R&D, SK&F. Regarded as a pioneer and founder in fields of preformulation research, biopharmaceutics, and clinical pharmacokinetics applied to drug product design and development; and an authority on oral sustained and controlled release methodology and drug absorption and excretion rates.
- 1967 Became Dean and Professor, University of Kentucky (UK), College of Pharmacy, January 1, 1967 – June 30, 1987. Retired as Dean at the age of 65. Brought a new vision of pharmacy education and practice to Kentucky.
- 1987 Professor of Pharmacy, July 1, 1987.
- 1989-Present Emeritus Dean and Professor, UK College of Pharmacy.

Professional Organizations; served as a member for prolonged periods in the following:

Kentucky Pharmacists Association
 Bluegrass Pharmaceutical Association
 American Pharmaceutical Association (APhA)
 Academy of Pharmaceutical Sciences (APS)
 American Association of Pharmaceutical Scientists (AAPS)
 American Chemical Society (ACS); also Lexington Chapter
 American Association for Advancement of Science (AAAS)
 American Institute for the History of Pharmacy
 American Public Health Association
 Conference of Teachers, American Association of Colleges of Pharmacy
 Academy of General Practice (APhA)
 International Pharmaceutical Federation (FIP)
 American Board of Diplomats in Pharmacy
 Council of Deans, AACP (after 1987, Council of Faculties)
 Kentucky Academy of Science (KAS)
 Honor Societies: Rho Chi, Phi Eta Sigma, Phi Lambda Upsilon, Phi Sigma, Sigma Xi, Omicron Delta Kappa National Leadership Honor Society.
 Professional Pharmacy Fraternity: Kappa Psi

Academic, Professional and Scientific Awards, Appointments, and Accomplishments:

- 1939 Elected after freshman year into membership into Phi Eta Sigma Fraternity, National Honor Society (at Wisconsin) for good scholarship.

- 1941 Elected member of Rho Chi, National Honorary Pharmacy Society.
- 1941 Elected as the first President of the University of Wisconsin Pharmaceutical Society. This was the name given to the newly formed student branch of the APhA and the WPhA at UW-Madison. Graduated in 1942 with a B.S. in Pharmacy; and started to study toward a Ph.D. in Pharmacy in September; the major area of study was in Pharmacy with major Professor Louis W. Busse; the minor area of study was in Biochemistry with minor Professor Karl P. Link, discoverer of Warfarin.
- 1942-43 Began taking courses in physical chemistry, mathematics, and other advanced courses in preparation for a new more highly scientific preparation for graduate research in pharmacy. Introduced the term “physical pharmacy” to his newly conceived area of pharmacy education at Wisconsin, involving learning and applying of physical chemical, mathematical, and analytical science principles to the teaching and research on drug compounds and pharmaceutical products; and in studies on the formulating processing, developing, storing, and evaluating in human subjects of pharmaceutical dosage forms.
- 1943-45 Spent about two years in a Tuberculosis Sanitarium at Statesan, Wisconsin overcoming a tuberculosis infection in right lung. Completed by correspondence four college-level semester courses for credit through UW Extension Services. These included College Algebra, Analytic Geometry and two courses in Calculus.
- 1945-46 Originated the idea of applying low-temperature nitrogen adsorption technique (Brunauer-Emmett-Teller Method) to the study of specific surface areas of pharmaceutical powders; built the (BET Method) equipment at the UW School of Pharmacy which equipment then was not available commercially; and began the first physical pharmacy thesis research problem at the University of Wisconsin (measuring specific surface areas of pharmaceutical powders using low-temperature nitrogen adsorption technique.)
- 1942-53 Was a principal person at the School of Pharmacy at UW in a) conceptualizing and evolving the discipline of physical pharmacy, and b) bringing his astute physical-organic-analytical chemist friend (Takeru Higuchi, Ph.D., 1943) from a job in rubber research in Akron, Ohio to the School of Pharmacy, University of Wisconsin for a visit in 1946; encouraging him to a) accept in 1947 a faculty position at UW-Madison in physical pharmacy and b) help him give leadership and guidance to this newly emerging discipline in pharmacy education. Dr. Higuchi became known across the world of academic and industrial pharmaceutical sciences for a) original courses he taught in physical pharmacy, b) the invited lectures he gave, c) presentations at national and international meetings, d) the great impact he had in bringing a high level of research in pharmaceutical science to the Schools of Pharmacy in Wisconsin, and Kansas to which he moved in 1967, e) his 300 or more published scientific papers in pharmacy, and f) the 100+ graduate students and post-doctorals for whom he served as major professor during 1948-87. Professor Takeru Higuchi became one of the top, most prominent, most illustrious pharmaceutical educator-scientists in the world during the 20th century. He became especially highly regarded in

America where he was born and in Japan from where his parents immigrated to America.

- 1948 In August Dr. Swintosky was appointed a full-time Assistant Professor at Wisconsin. Introduced a biochemical natural-product perspective to the teaching of pharmacognosy, at the University of Wisconsin School of Pharmacy.
- 1948-present Member of many professional and scientific pharmacy committees at local, state, national, and international level.
- 1948 Was the senior author (Publications 1, 2, 3) of the first three published physical pharmacy research papers (using BET Method) to emerge from the University of Wisconsin; and helped to give international visibility to the start-up of teaching and research in physical pharmacy.
- 1953 Took one-year leave of absence from UW School of Pharmacy to obtain experience in industrial pharmaceutical R&D; however in reality it lasted for about 14 years.
- 1953 Joined Smith Kline & French Laboratories (SK&F), Philadelphia, Pennsylvania. Was one of the first Ph.D. graduates in pharmaceutics (rather than pharmaceutical chemistry) to join a pharmacy R&D section in pharmaceutical industry. Was the first person with a Ph.D. in Pharmacy (Pharmaceutics) in R&D at SK&F. Was asked to direct much attention to formulation theory and practice, applicable to making and marketing oral sustained release products, then a budding new product area.
- Introduced for the first time hydrogenated castor oil and ethylcellulose as useful agents for coating pellets and for effecting oral sustained release from coated drug pellets, from embedded granules and from tablets. These agents are now widely used for such purpose.
- Reported to SK&F scientific leaders in 1953 his observations of first-order elimination rate in humans of drugs including theophylline, penicillin G, sulfas, etc., for which he published in JAPhA, Sci. Ed. their biologic half-lives for the first time ever (Pub. 17). He revealed the importance of biologic half-life and first-order drug elimination rate in rational design of dosage forms and regimens and their evaluations in human subjects; with applications especially to controlled drug release products. His public presentations (1955-56) and publications regarding biologic half-lives of well known drugs revolutionized the teaching of duration of action of drugs in pharmacy, medical and other health care schools (Pubs 17, 18, 19). He helped to establish the concept of drug bioavailability from oral sustained release dosage forms, and evolved methods and began publishing papers later; especially reporting upon the bioavailability of drugs from oral sustained release and also enteric-coated products. These new evaluation methods are illustrated in (Pubs 25, 33); but all such studies were not published in the literature. His plans and experiments using human subjects in the 1950s were the first to demonstrate and explain scientifically the credibility of oral sustained release dosage forms.

- 1953-87 Referee for journal articles especially Journal of Pharmaceutical Sciences.
- 1954-70 Invented and developed the double-layered oral sustained release tablet, and later received a patent for it, along with numerous other patents.
- 1955-56 Invited AACP lecturer on “Illustrations and Pharmaceutical Interpretation of First-Order Drug Elimination Rate From the Bloodstream” and the importance of such kinetic concepts to drug product development and use. Lectures given at Colleges of Pharmacy at Purdue, Florida A&M, and South Carolina. Paper with the above title was published in 1956, and was runner-up for APhA Ebert Prize in 1957.
- 1957 Fellow, American Association for Advancement of Science (AAAS).
- 1958 National Ebert Prize (for Pubs 20, 21 in Journal of the American Pharmaceutical Association for introducing a) the biologic half-life ($t_{1/2}$) concept to teaching, research and pharmacy patient care services in American pharmacy, b) $t_{1/2}$ applications to rational dosage form design using sulfaethylthiadiazole as the drug for study, and c) the use of physical pharmacy concepts in in vivo study aspects of drug absorption-distribution-metabolism-excretion, product development, and clinical drug product evaluation. He initiated in 1954 the earliest reported biopharmaceutical and human pharmacokinetic studies emerging from an industrial pharmacy product development group; and the public scientific lectures he gave in 1955 with the published reports starting in 1956, of his data and methods, changed profoundly the directions of academic and industrial pharmaceuticals studies. They changed from only traditional in vitro pharmaceuticals studies to include much more encompassing physical pharmacy in vivo studies involving physical pharmacy, preformulation studies, biopharmacy, and clinical pharmacokinetic development studies in pharmaceutical R&D. (Pubs 22, 25, 27, 28, 29, 30, 36, 37, 55, 105)
- Introduced at SK&F the prodrug concept into search for new patentable and marketable therapeutic agents, getting several patents for new drugs. (Patents 2-10).
- 1958-67 Adjunct Professor, Temple University School of Pharmacy in addition to full-time employment at SK&F.
- 1960-61 Vice-President of the American Association for the Advancement of Science (AAAS), and Chairman AAAS Pharmacy Section.
- 1961 George Beecher Kauffman Lecturer, Ohio State University.
- University Honorary Citation, University of Wisconsin.
- 1961-62 President, American Pharmaceutical Association (APhA), Philadelphia branch.

- 1963-67 Visiting Scientist across the country of the American Association of Colleges of Pharmacy (AACP).
- 1963 National, Pharmacy Achievement Award of the American Pharmaceutical Association (APhA).
Pharmacy Achievement Award of the American Pharmaceutical Association (APhA), Philadelphia branch.
- 1964 National, American Pharmaceutical Association (APhA) Foundation Award in Physical Pharmacy.
Honorary Member, University of Wisconsin School of Pharmacy Alumni Association.
Gave a major opening address; invited scientific paper on Drug absorption at meeting of Japanese Pharmaceutical Society, Tokyo, April.
- 1964-65 Chairman, Scientific Section of the American Pharmaceutical Association (APhA).
- 1964-69 Editorial Advisory Board, Journal of Pharmaceutical Sciences.
- 1965-67 Vice-President, Rho Chi National Honorary Society.
- 1965-69 Executive Committee Member, and a principal founder of the Academy of Pharmaceutical Sciences of the APhA.
- 1965 Initiated and evolved the concept at SK&F of an experimental in situ rat gut technique for studying factors effecting rates and amounts of drug absorption from a gut in which the vascular system was intact. The technique was perfected at Kentucky during 1967-68 with research colleagues. First-order rate kinetics of drug absorption was frequently observed and the data published. This experimental method and variations of it has had considerable use in many laboratories in America and abroad.
- 1966 Kremers Memorial Lecturer, University of Wisconsin, School of Pharmacy.
Invited scientific paper on Prodrugs, Polish Pharmaceutical Society, Lublin, Poland.
- 1966-67 Became Dean, effective December 1, University of Kentucky College of Pharmacy. Made some major additions to the College faculty of some very creative and productive young faculty people. Initiated patient care oriented pharmacy education at Kentucky and also in America, through major curriculum overhaul and by obtaining administrative sanction to a) use the University of Kentucky Hospital extensively for attaining objectives of integrated clinical teaching, research, and services in pharmacy, and b) having the Director of Pharmacy Central Supply of the University Hospital report administratively to the

Dean of the College of Pharmacy. The above actions had a profound effect on how professional pharmacy education in America would evolve, leading ultimately to the universal patient care oriented Pharm.D. as the entry degree for the practice of pharmacy in America. Spelled out the goals for the college and laid out the plans for becoming a great American College of Pharmacy.

1967-68 Opened the gates to experiential education for college credit by getting authorization from Medical Center Administration to use hospital and community pharmacy settings, establishing voluntary faculty titles and responsibilities for pharmacy practitioners in our College teaching, service and research programs. Brought a strong patient health care and scientific emphasis to pharmacy teaching and research programs; provided a precedent and model for other colleges of pharmacy to follow which helped to influence other colleges of pharmacy in America (and a few abroad) to adopt a model for pharmacy patient health care education. This has resulted in pharmacists being educated to be the authorities on the appropriate, safe, and optimal use of drug products; and enabled them to become active participants on the health care provider teams in patient care; and in monitoring patient use of drug products, and in evaluating therapeutic outcomes. Helped to pioneer computer use in maintaining drug patient care records in independent, chain and hospital pharmacies.

President, (APhA) Academy of Pharmaceutical Sciences (APS); and member of the Executive Committee (1966-1969).

1967 Elected Active Member, New York Academy of Sciences.

Initiated the writing of a centennial history of the College of Pharmacy, 1870-1970.

Began the transformation of the UK College of Pharmacy from a lowly regarded college in the 1960s to the highest-ranked college on the UK campus, and the 4th highest-ranked college of pharmacy in America in 1974. It remains highly ranked to this day through good program definition, meeting goal attainment, a highly competent faculty and staff, and a highly regarded student body.

1968 Pharmaceutical Research Discussion Group in New Jersey-New York area gave Best Paper Award for 1968, of paper appearing in Journal of Pharmaceutical Sciences in 1967.

Took steps to give UK pharmacy faculty and staff a new and creative vision of pharmacy education and practice, to give administrative order and bring high morale to the UK College of Pharmacy family; and set the stage for change, rapid academic achievement, and progress. Adopted some aspects of industrial administrative techniques to the academic setting. Established for the UK College of Pharmacy, a) organization, including a committee structure, b) plans and goals for the college family and expectations for progress, c) job descriptions for faculty d) annual performance evaluation procedures, e) annual synopsis of faculty member's work load, distribution of effort, and accomplishments in teaching,

research, and professional and public service, f) newsletter, The Spatula, as a public information and public relations instrument for maintaining college contact with students, faculty, staff, alumni, Kentucky pharmacists, and friends, g) policies for time away from the college, meeting attendance, consulting, and vacation, h) established a College committee system stating the goals and responsibilities of each committee and its Chairman, annual accountability in writing, new annual goals of the Committee in writing, along with oral reports from the Committees at faculty meetings, and i) an annual report of the College of Pharmacy for higher University administration, and an abbreviated annual report for publication in the Kentucky Pharmacist (journal). These were major administrative accomplishments benefiting especially the personal and collective development of pharmacy faculty at a time when such administrative approaches were not commonplace in academia, and when written annual reporting and accountability were unheard of at UK Colleges.

Established at the College in 1968 a Ph.D. research program, an optional Pharm.D. professional program and a residency program managed and conferred by the College, but with strong inputs from the University Hospital and practice sites.

Became registered pharmacist by examination through Kentucky State Board of Pharmacy.

Recommended establishment of the Annual Higuchi Research Seminar, which then became a reality for the University of Kansas College of Pharmacy where Takeru Higuchi maintained a professorial appointment from 1967 until his death in 1987.

Encouraged and attracted the first pharmacy postdoctoral academicians from a university (Kumamoto) in Japan to spend a year in Kentucky with us to study drug absorption. Over the years many Ph.D.s from Japan followed this path.

1970 Fellow, Academy of Pharmaceutical Sciences of the American Pharmaceutical Association.

Honorary Member, Polish Pharmaceutical Society.

1970-85 Appointed Member, United States Adopted Names Review Board (USAN Review Board).

1971 Invited to give scientific paper on the kinetics of absorption-distribution-metabolism-excretion of sulfaethylthiadiazole at Foresta Hotel Medical Seminar, Stockholm, Sweden, March.

Was a pioneer in promoting integrated clinical education (teaching, research and service) in pharmacy. Invited to present professional and educational paper on Clinical Pharmacy Education sponsored by AACP-ASHP Clinical Pharmacy Conference, Kansas City, Missouri.

Lecture on Trends in Pharmacy Education, College of Pharmacy, Poznan, Poland, March.

Lecture on Trends in Pharmacy Education, College of Pharmacy, University of Ljubljana, Yugoslavia, April.

Discussion Leader, National Industrial Pharmaceutical Research Conference, Land O' Lakes, Wisconsin, June.

1972 Duke of Paducah Award, City of Paducah, Kentucky.

Discussion Leader, Higuchi Research Seminar, Lake Ozark, Missouri, March.

Lecturer, Seminar on Clinical Education and Practice, College of Pharmacy, North Dakota State University, Fargo, ND, March.

Participant, Advisory Panel for Merck, Sharp and Dohme concerning needs of pharmaceutical education today, North Wales, PA, June.

Member, Section for General Practice of Pharmacy, Working Group 3, International Pharmaceutical Federation, Lisbon, Portugal, September. Elected Secretary of Working Group 3.

1972-74 Appointed member, Kentucky Drug Formulary Council, State of Kentucky, focusing in on how to get a broader use of generic (and cheaper) drug products in Kentucky.

1974 UK Alumni Association Award (for the College) for being selected by pharmacy deans across the country as one of the best colleges (4th) among all colleges of pharmacy in America.

Speaker for the investiture of Dr. William Owen Foye at Massachusetts College of Pharmacy as Sawyer Professor of Pharmaceutical Sciences; and Commencement Address speaker to Massachusetts College of Pharmacy students on same occasion.

1975 National Industrial Pharmaceutical Technology Award, San Francisco, CA, April, sponsored by APhA.

USA Steering Committee Member, General Practice Section, FIP.

1976 Participant, International Symposium on Bioactivation and Controlled Drug Release, Stockholm, Sweden, April.

Invited scientific paper on Biopharmacy, Theory and Practice, Budapest, Hungary, September, and at Hungarian Pharmaceutical Association Meeting.

- Participant, and Secretary of Working Group 3, General Practice of Pharmacy Section, International Pharmaceutical Federation (FIP), Warsaw, Poland, September.
- 1976-77 Member, Nominations Committee, Academy of Pharmaceutical Sciences.
- 1976-80 Member, VA Health Manpower Grants Review Committee.
- 1976-84 Member, The American Board of Diplomats in Pharmacy – International.
- 1976-85 U.S. Coordinator, Academic Section, International Pharmaceutical Federation (FIP).
- Consultant, International Consultant, Inc. Advisory Council Committee.
- 1977 Invited Lecturer on Progress in Pharmaceutical Education to Jordan Pharmaceutical Society, Amman, Jordan, February.
- Participant, presented three lectures, Pharmacy Postgraduate Course, Ministry of Health, Kuwait, February.
- Invited presentation at National Health Insurance Hearing sponsored by HEW, Lexington, Kentucky, October.
- Honorary Member, Association of Pharmacy Teachers in India (APTI Council).
- 1978-80 Member, Editorial Board, RPh Journal.
- 1978-85 Member, Selections Committee for Honorary Membership in Academy of Pharmaceutical Sciences.
- 1979 Invited paper on safety in medicine, FIP meeting, Brighton, England, “Inclusion of Safety Testing on Drugs in the Pharmacy Syllabus: Chemical and Pharmaceutical Aspects,” September.
- 1979-87 Member, Kentucky Pharmacists Association Legislative Committee.
- 1980 Appointed, University/Health Science Advisory Committee, UK.
- 1980-87 Appointed Member, Tobacco and Health Administrative Advisory Committee, University of Kentucky (UK).
- 1981 Invited presentation of the paper entitled, “Origination and Application of the In Situ Rat Gut Technique. A Way of Using It for Evaluating the Effect of Adjuvants on Drug Absorption” in colleges of Pharmacy in Gdansk, Poznan, and Warsaw, Poland, September; also at FIP Meeting, Vienna, Austria.
- 1981-83 Member, Time and Place Committee, District 4 NABP-AACP.

- 1982 Moderator of Session on Drug Product Quality Control, 2nd Drug Symposium at King Saud University College of Pharmacy, Riyadh, Saudi Arabia, March.
- Invited presentation of paper entitled, "Personal Experiences in the Early Days of Biopharmacy and Pharmacokinetics," Sidney Riegelman Memorial Symposium, San Francisco, CA, April.
- Invited presentation, "The need of Pharmaceutical Education in Kuwait," The First Kuwait Conference of Pharmaceutical Sciences, Safat, Kuwait, November.
- Chairman, APhA Academy of Pharmaceutical Sciences Committee on Honorary Members, 1982-83.
- Member, Kentucky Pharmacists Association Continuing Education Advisory Committee, 1982-83.
- 1983 Invited presentation, "Prodrugs and the Potential of SKF 26070," Smith Kline & Bechman Laboratories, Philadelphia, PA, May.
- Host and Delegation Leader for professional delegation of pharmacists and pharmaceutical and biomedical scientists to USSR and The People's Republic of China. The delegation, organized by People-To-People, July 2-23.
- Participant, FIP Meeting in Montreaux, Switzerland during September 3-9; also presented lecture on "Directions of Pharmaceutical Education" (at college of pharmacy at the University of Ljubljana, Yugoslavia).
- Initiated construction planning for a new UK College of Pharmacy building that had been promised, but postponed from when it was first promised in 1967 by University and Medical Center Administration.
- Panelist, University of Wisconsin Centennial Symposium, Madison, Wisconsin, October 2-4, "Education of the Pharmaceutical Scientist; Needs of Schools of Pharmacy".
- 1984 National Rho Chi Lecture Award, Montreal, Quebec, Canada.
- 1984-87 Elected Member, Electorate (Pharmaceutical Sciences) Nominating Committee, American Association for Advancement of Science.
- 1985 Member, Kentucky Academy of Science.
- Invited Presentation of paper on pioneering effort on our "An Off-Campus Post-Baccalaureate Professional Doctoral Teaching Program", FIP Meeting, Montreal, Canada, September.
- 1986 Invited Participant, Symposium, "Educating Health Care Professionals; The Next Twenty-Five Years", Lexington, Kentucky, April.

Acquisition of new Pharmacy Building in fiscal 1985-86. Address at Dedication Ceremonies, May. Event summarized in a special edition of the College Newsletter, 1986.

Lecturer at Universities and Colleges of Pharmacy in Poland, "A Vision of Pharmacy and Pharmaceutical Education for the Future". Received Honorary Doctorate degree from Poznan Medical Academy, September.

Lecturer, "Research in Colleges of Pharmacy" Charles University Pharmacy School, Hradec Kralove, Czechoslovakia, September.

Invited Lecturer and gave three presentations at the University of Ljubljana, Ljubljana, Yugoslavia, September; Titles of papers given in Poland, Czechoslovakia and Yugoslavia were: "Vision of Pharmacy and Pharmacy Education for the Future", "How A Clinically Oriented Curriculum was Evolved in Pharmacy Education at Kentucky and Its Value to Pharmacy", and "Recent Trends in Pharmaceutical Research and Development – Programs Within the UK College of Pharmacy", September.

Presented paper, "A Statement Opposing Specialty Status for (the name) Clinical Pharmacy; And in Support of a Curriculum With a Strong Patient Care Oriented Emphasis for Meeting the Requirements for the General Practice of Pharmacy", at the American Society of Hospital Pharmacists Midyear Clinical Meeting, Las Vegas, Nevada, December.

Initiated into membership of Omicron Delta Kappa, National Leadership Honor Society.

Distinguished Service Award, Kentucky Pharmacists Association.

Charter member and one of the founders of American Association of Pharmaceutical Scientists (AAPS).

1987 Japan Society for the Promotion of Science, Fellowship for Research, April 1-15, and invited speaker at several universities and industries in Japan.

Presented invited paper, Japanese Pharmaceutical Society (JPS) Meeting, Kyoto, Japan, entitled, "Pharmacy and Pharmaceutical Education: Future Change and Growth," April 3, 1987.

Presented lecture, Academy of Pharmaceutical Science and Technology of Japan (APSTS), Hoshi University, Tokyo, Japan, April, entitled, "A Lifetime of Personal Experiences in Pharmaceutical Education and Science and Their Influences On Pharmacy and Pharmacy Education", April.

Invited lecture, Sankyo Co., Tokyo, Japan, April. "Pharmacy and Pharmaceutical Education: Future Changes and Growth".

*** Invited Lecture, "Development of Clinical Education at Kentucky", Kitasato University, Tokyo, Japan, April. Also, gave same paper as one given at Hoshi University, Tokyo**.

Invited lectures at China Pharmaceutical University, Nanjing, China. Same titles as three lectures given in Japan during April, 1987.

Invited lectures, College of Pharmacy, West China Medical University, Chengdu, China, titles as given in Japan, April, 1987.

Fellow, American Association of Pharmaceutical Scientists, June.

The Merck Sharp & Dohme Award for Outstanding Achievement in Profession of Pharmacy, June.

Blue Grass Pharmacists Association Award for Distinguished Service to Pharmacy and the Community.

1987 Distinguished Alumnus Award, University of Wisconsin Alumni Association.

Received Distinguished Scientist Award for 1987 from the Kentucky Academy of Science, November.

1988 Dean Joseph B. Sprowls Lecture Award, Temple University, September.

Chairman, Fellows Selection Committee of AAPS.

1989 Received the highest international scientific prize, the Host-Madsen Medal Award of the International Pharmaceutical Federation (FIP) at the Munich Meeting in September, 1989. In an international competition, the award is given by the FIP Board of Pharmaceutical Sciences to a pharmacist whose work in pharmaceutical sciences has been distinguished. In 1989 Dr. Swintosky was only the third American pharmaceutical scientist to receive this gold medal and cash award. He wrote his professional biography in connection with receipt of this award.

1990 Received the highest national scientific award in pharmacy, the Volwiler Research Achievement Award Medal and cash award at AACP Meeting in Las Vegas, Nevada, September 10, 1990. Gave Volwiler Award Lecture at this meeting. Also gave lecture at Abbott Laboratories who sponsors the award, on September 28, 1990.

1991 Received the 1991 American Foundation for Pharmaceutical Education (AFPE) Former Fellow Distinguished Service Profile Award at the January 24, 1991, AFPE Board meeting in New York City. This award is given to honor Former Fellows who have made outstanding contributions to pharmacy during their career.

Received the Distinguished Kentuckian in Pharmacy Award on April 24, 1991 at a dinner held at the Hiliary Boone Faculty Club, Lexington, Kentucky. The nomination for this award came from the University of Kentucky College of Pharmacy faculty.

- 1992 Invited contributor to series of published books comprising a Memorial Tribute of which my chapter was entitled, "Takeru Higuchi, Esteemed Pharmaceutical Scientist".
- 1993 Invited Presentation, "How and Why the University of Kentucky College of Pharmacy Took A Primary Leadership Role in The Drive Toward Patient Care Oriented Pharmacy, Teaching, Research, and Professional Services", Kitasato-Kentucky Joint Clinical Pharmacy Symposium, Kitasato University, Tokyo, Japan, September 3, 1993.
- 1994 Endowed Lecture Series, Dr. Joseph V. Swintosky Distinguished Lecture Series established at the University of Kentucky College of Pharmacy in honor of Emeritus Dean Joseph V. Swintosky.
- 1983-99 Persuaded and encouraged Dr. Eunice Bonow Bardell to write the "History of our UK College of Pharmacy Covering the Period of 1970-85". Publication of a book on this subject with Dr. Bardell as author occurred in 1999.
- 1998 Fifty years, and lifetime member of the American Chemical Society (ACS).
- 2000 Kentucky Pharmacists Association (KPhA) conferred on Dr. Swintosky Honorary Lifetime Membership in the KPhA.

Editorial Activity

- 1964-69 Editorial Advisory Board, Journal of Pharmaceutical Sciences.
- 1978-80 Editorial Board Member, RPh Journal.
- 1957-87 Reviewer, American Journal of Pharmaceutical Education, and Journal of Pharmaceutical Sciences.

Research and Other Academic Interests

1. Curriculum development. Standards of education in pharmacy.
2. Pharmacist professional development, and ethics in pharmacy.
3. Administration in pharmaceutical industry and education.
4. Developing new roles for pharmacists.
5. Pharmaceutics, biopharmaceutics, and pharmacokinetics.
6. Drug product design – development – stabilization – evaluation. Concepts and suggestions for new products.
7. The processes of pharmaceutical technology and formulation.

8. Sustained and controlled drug absorption, distribution, metabolism, and excretion.
9. Making and evaluating new prodrugs.
10. Drugs from living sources.
11. Developing technology for controlled release of drugs from oral dosage forms.

Patents

10 distinct U.S. pharmaceutical patents, each listed in several countries, for a total of about 40.

Publications

Approximately 130 scientific and educational articles (including 10 U.S. patents).

Pastimes

Gardening, picnicing, fishing, spectator at baseball-basketball-softball-football-soccer games where children and grandchildren participate, sports generally, traveling, and spending leisure time with family; compiling and studying family genealogy, and playing card game called schafskopf (sheep head).