

The Department of Statistics
at the University of South Carolina:
A History to 2003

by

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Preface

The Department of Statistics at the University of South Carolina grew out of the statistics programs that began in the Department of Mathematics in the early 1970s and has evolved into a strong, viable academic unit. In the academic year 2002-2003, it has 14.5 full-time equivalent faculty members which include six full professors, four associate professors (one jointly with the Biological Sciences Department), three assistant professors, and two full-time instructors. There are also three full-time staff members. The Department offers baccalaureate, masters, and doctoral degrees, as well as a Certificate of Graduate Study in Applied Statistics, and teaches over 1,400 students per semester in its classes. There are almost fifty graduate students, thirty of whom are graduate assistants, and over twenty undergraduate statistics majors enrolled. Alumni of the statistics programs are employed in industry, business, government, and academic institutions nationwide. The faculty members are very active in research and scholarly activities, perform services for professional organizations and the public, and include five Fellows of the American Statistical Association, one Fellow of the Institute of Mathematical Statistics, two elected members of the International Statistical Institute, and several who have won awards for outstanding teaching. The faculty also obtains significant outside funding for its research activities--in 1978-79 there was one NSF grant for approximately \$10,000 in effect in the statistics group, while in the fall of 2002 the Department has over \$1.3 million in outside funding in effect from organizations such as the NIH, ARO, NOAA, South Carolina State agencies, and industrial concerns, as well as the NSF.

Within the Departmental structure, the Statistical Laboratory, formed in 1977, offers statistical analysis and consulting services to researchers within the University as well as to industry, business, and government personnel. In addition, the Center for Reliability and Quality Sciences, organized in 1990, offers training for technical and managerial personnel in quality improvement areas and provides a focal point for research on reliability theory and statistical process control.

This document provides a relatively brief account of the development of the area of statistics as a stand-alone discipline at USC up to the academic year 2002-2003. Most of the development has occurred since the mid-1960s, with a significant amount of growth in the 1970s, providing the basis for the status of the current programs. More than fifty years ago, it was predicted by H. G. Wells that statistical thinking would some day be as important for efficient citizenship as the ability to read and write. That prediction certainly has come true, and perhaps has driven the growth in student enrollments and importance of the field of statistics. Fueled by the "information age," the Department and its programs should continue to experience growth and success over the next several decades!

Table of Contents

The Early Years	1
Computer Science and Mathematics: A Union Made by Jones	4
1980-1985: "Large Variation" Years	8
New Beginnings: The Department of Statistics 1985-1990	11
1991-1995: Further Growth and Change	14
1996-2002: Coming of Age	15
The "Grown" Department: Fall 2002	17
Appendices	18

The Early Years

Even though the University of South Carolina was founded as South Carolina College in 1801, very few statistical courses were listed in the University catalogs prior to World War II. One of the first "statisticians" on the faculty most likely was Charles F. McCay, a mathematician who was named the seventh president of South Carolina College in 1855. He had been a faculty member in mathematics since 1854, having come from the University of Georgia. McCay had a keen interest in insurance and kept "statistics" on the cotton industry. He later lived in Augusta, Georgia, and became wealthy applying his knowledge of mathematics to the field of insurance.¹

The development of programs in statistics at USC actually began in the mid-1960s. As late as 1964 there was no program at the University with an emphasis, track, or major in statistics. At that point there were undergraduate courses in elementary statistics, probability, and introductory mathematical statistics offered by the Department of Mathematics and Astronomy, a few applied statistics courses in the Colleges of Business Administration and Education, and an applied course in the Department of Psychology. Professors Edgar P. Hickman and James G. Hilton primarily taught the courses in Business Administration, and Professor Robert McCarter taught the statistics course in Psychology. A listing of courses in the 1955-56 and 1964-65 USC catalogs with statistics or probability titles is given in Table 1.

In 1965-66, the Ph.D. program in Business Administration began offering a concentration in probability and statistics, joined by the Ph.D. program in Economics in 1966-67. At that time, USC began its association with the Southern Regional Education Board's Committee on Statistics (SREBCoS) with Professor Hickman as its representative to that committee. The Business Statistics and Economics statistics programs expanded in 1968 with the addition of Professors J. Michael Ryan and Edward Nissan (who was appointed jointly from Mathematics). Two additional faculty members in Econometrics and Business Statistics, W. R. Folks and Susan Cochrane, were hired in 1969.

Table 1. Early Statistics and Probability Courses at USC

USC Bulletin Academic Year	Course Number(s)	Course Title
1955-56	Math 35	Elementary Statistics
	Math 112	Introduction to Mathematical Statistics
	Econ 191-192	Economic Statistics
	Econ 291	Statistical Elements and Problems (graduate)
	Econ 292	Quantitative Measurement and Statistical Inference (graduate)
	Educ 36	Educational Measurement and Evaluation
	Educ 265	Statistical Methods (graduate)
1964-65	Math 35	Elementary Statistics
	Math 111	Theory of Probability
	Math 112	Introduction to Mathematical Statistics
	Bus Admin 159	Market Research
	Bus Admin 193	Quantitative Methods
	Bus Admin 293	Quantitative Methods for Business Decisions (graduate)
	Econ 91	Economic Statistics
	Econ 192	Economic Statistics
	Econ 291-292	Advanced Statistics (graduate)
	Educ 136	Educational Measurement and Evaluation
	Educ 265	Descriptive and Inferential Statistics (graduate)
	Educ 275	Inferential Statistics and Research Design (graduate)
	Psyc 105	Psychological Statistics

¹According to a history of Mathematics at the University of Georgia, Athens.

In 1968, Professor James H. Wahab joined the University as the Head of the Mathematics Department. Dr. Wahab had been Chairman of Mathematics and Acting Dean at the University of North Carolina at Charlotte, Mathematics Chairman at Louisiana State University-New Orleans, and a faculty member at North Carolina State University and Georgia Tech. He obtained his Ph.D. degree in 1951 from the University of North Carolina at Chapel Hill, and even though his dissertation was on algebra directed by Professor Alfred Brauer, he had taken a number of probability and statistics courses under the famous Chapel Hill and N. C. State statistics faculty at the time (Robbins, Hoeffding, Smith, and others). By 1969-70 the USC catalog showed the Department of Mathematics (changed from Mathematics and Astronomy) with twenty-three faculty members and the courses had been renumbered from Math 35, 111, and 112 to Math 201, 511, and 512, respectively. Wahab was interested in developing additional probability and statistics courses, along with emphasis tracks in statistics within the Mathematics Department's undergraduate and graduate programs, and under his leadership, the Department began sincere efforts to diversify and expand its programs in these areas. By the middle of the 1970-71 academic year and in spite of large budget reductions in State funding as well as a hiring freeze on all University personnel, Wahab had recruited to the Department three new assistant professors in statistical areas: James J. Buckley (Mathematics/Operations Research), William J. Padgett (Statistics), and Robert L. Taylor (Statistics).



James H. Wahab

In addition to initiating the statistics programs within Mathematics, Jim Wahab played a key role in the beginnings of the organization of statistics as a recognized discipline at USC. During 1969-1970, he persuaded President Thomas F. Jones and Provost John Guilds to appoint a University-wide committee, named the Interdisciplinary Coordinating Committee on Statistics (ICCS). With Wahab as committee chair, the other ICCS members in 1969-70 were Professors Garrett Mandeville (Education Measurement), Edgar Hickman (Business Administration), and Robert McCarter (Psychology). The ICCS remained active for several years in coordinating and promoting the statistics offerings and programs at the University, until the mid-1970s. It brought a focus to the statistical activities and was intended to coordinate new course offerings, promote interdisciplinary statistical efforts, and enhance the growth of the area across the University.

As mentioned earlier, the first two full-time faculty members with doctoral degrees in Statistics were hired in the Mathematics Department by Jim Wahab in early 1971. Bob Taylor arrived in mid-January after obtaining his Ph.D. at Florida State University, and Joe Padgett completed the Ph.D. at Virginia Polytechnic Institute & State University and joined the Department on February 1. Jim Buckley had received his doctorate in Mathematics and Operations Research at Georgia Tech and arrived in the fall of 1970. These three young assistant professors were charged by Wahab with the development of undergraduate and graduate courses in probability and statistics that would lead to bachelor's, master's, and Ph.D. degrees granted in Mathematics with special training in statistics and probability to prepare students for mathematical science careers in industry, government, and academia.

The Mathematics Department was organized into "area committees" by Wahab. There were six area committees until the fall of 1971: Algebra Committee, Number Theory Committee, Analysis Committee, Topology Committee, Applied Mathematics and Statistics Committee, and Mathematics Education Committee. At the beginning of the fall of 1971, the Applied Mathematics and Statistics Committee was split into the Applied Mathematics Committee and the Probability and Statistics Committee. Each committee selected a chairperson who was the representative to the Departmental Executive Committee which was advisory to the Head. The Probability and Statistics Committee Chairmen during 1971-1980 are shown in Table 2. (The Computer Science Committee was added in 1973 when the Mathematics and Computer Science Departments were merged, as described later.) All course proposals, changes in curriculum, and other matters were discussed and voted upon by the Executive Committee.



Robert L. Taylor



William J. Padgett

Table 2. Probability and Statistics Committee Chairmen from 1971 to 1980

1971-72	Robert L. Taylor
1972-73	Robert L. Taylor
1973-74	Robert L. Taylor
1974-75	William J. Padgett
1975-76	William J. Padgett
1976-77	Charles Locke
1977-78	William J. Padgett (Fall), Robert L. Taylor (Spring)
1978-79	William J. Padgett
1979-80	William J. Padgett

During the spring of 1971 with Wahab's support, plans were made by Buckley, Padgett, and Taylor to begin offering in the Mathematics Department several new courses in probability and statistics in addition to the five or so existing courses, in elementary statistics, basic probability, and introductory mathematical statistics at the undergraduate level and graduate applied statistics. Thus, courses on statistical methods (MATH 515-516), statistical theory (MATH 513), and stochastic processes (MATH 514) at the undergraduate level were developed and first offered by Taylor and Padgett during 1971-72. Also, at the graduate level, in addition to the newly created course on applied statistics (MATH 725-726) that was being taught in 1970-71 by Garrett Mandeville from Education, course sequences in probability theory (MATH 721-722) and statistical theory and linear statistical models (MATH 723 and 724, respectively) were offered for the first time in 1971-72. MATH 513, 515 and 723 were first offered by Padgett and MATH 514, 721 and 724 (linear models) were taught first by Taylor, all with good enrollments. In 1972-

73 under a restructuring of the areas within Mathematics, these courses were renumbered: 721-722 became MATH 710-711, 723 became 712, 724 became 714, and 725-726 were changed to 700-701. This numbering is still the same for these courses in the Department of Statistics.

In the summer of 1972, Stephen D. Durham joined the Mathematics Department as an assistant professor in the statistics faculty, again hired by Professor Wahab. Durham had obtained the Ph.D. degree at the University of California-Davis in 1969 and taught for three years at the University of Colorado, Boulder, before coming to USC. His area of research was applied probability and branching processes, and a post-doctoral student, Edgar Ganuza-Zamora, came as a visiting assistant professor for the year 1973-74 to do research with him.



Stephen D. Durham

Hence, 1970-73 were years of significant change and expansion for statistics in the Mathematics Department. At the same time, in the College of Business Administration, Business Statistics and Econometrics were combined with Computer Information Systems to form the Management Science area. In 1972, Professor Gary Griepentrog joined the Management Science faculty, and Charles Beswick and Bartow Hodge were added in 1973.

The seeds of the statistics program planted in the Mathematics Department continued to grow over the next several years. Two main structural changes occurred in the department over the next seven years. The first was announced in May 1973.

Computer Science and Mathematics: A Union Made by Jones

In 1972, President Thomas F. Jones decided to form three new colleges from the College of Arts and Sciences: the College of Arts and Letters, the College of Social and Behavioral Sciences, and the College of Science and Mathematics. A couple of years later, the Colleges of Arts and Letters and Social and Behavioral Sciences were recombined into essentially what is now the College of Liberal Arts. The College of Science and Mathematics was kept separate, and a permanent Dean, Professor James R. Durig of the Chemistry Department, was appointed in May 1973 to replace the interim dean, Professor Oswald F. Schuette of Physics and Astronomy. Effective July 1, 1973, President Jones and Dean Durig combined the Mathematics Department and the Computer Science Department into one unit, the Department of Mathematics and Computer Science. Professor William J. Eccles, the Head of the Computer Science Department, was appointed as the Head of the new combined department, and Professor Charles A. Nicol,

a mathematician, was appointed as Assistant Head. (After a sabbatical leave, Professor Wahab returned and taught statistics and mathematics education courses until his retirement from the University in 1983.) The combined Department then had eight "area committees" with the addition of the computer science faculty.

In the early summer of 1973, the statistics group hired Charles Locke, a Ph.D. Statistics graduate of Ohio State University. Locke joined the new Department of Mathematics and Computer Science in August 1973, bringing the number of statistics faculty members to five, including Jim Buckley. At that time, the department regularly offered seven undergraduate courses in probability and statistics: elementary statistics (MATH 201), introductory probability and stochastic processes (MATH 511 and 514), mathematical statistics (MATH 512-513), and statistical methods (MATH 515-516). In addition, Padgett developed a course on statistics for engineers (MATH 509) and offered it first as MATH 599B in the spring of 1974. All courses were very popular among the mathematics majors and graduate students in other disciplines and consistently had healthy enrollments. At the graduate level, there were four two-semester sequences that were offered on a regular schedule, which were applied statistics (MATH 700-701), statistical theory (MATH 712-713), probability theory and stochastic processes (MATH 710-711), and linear models and analysis of variance (MATH 714-715). Further, topics courses in probability and statistics were offered on a regular basis for graduate students (MATH 716 and 718). By the mid- to late 1970s, topics courses had been taught on laws of large numbers for random elements, branching processes, analysis of variance, decision theory, nonparametric inference, time series, random equations, reliability theory, and biostatistics. All courses were enjoying good enrollments and provided a quite broad and strong emphasis on statistics within the master's and doctoral programs in Mathematics. The number of graduate students in Mathematics choosing an emphasis in statistics ranged between about twelve and twenty during these years. The success and maturing of the programs in both curriculum development and research productivity was further evidenced by the promotion to Associate Professor and awarding tenure to Padgett and Taylor in 1973 and 1974.

John D. Spurrier joined the statistics faculty as an assistant professor in Mathematics and Computer Science in the fall of 1974, after receiving the Ph.D. in Statistics from the University of Missouri-Columbia. During his first couple of years, Spurrier developed undergraduate courses in nonparametric methods (MATH 518) and sampling methods (MATH 519), adding two more courses to the undergraduate curriculum and bringing the total to ten regularly offered undergraduate courses.



Charles Locke



John Spurrier

During 1973-75, the statistics group was called upon to help in the initial organization of the biostatistics component in the new School of Public Health under Dean Rolf Linton. Two of the statistics faculty members became involved in the development of introductory biostatistics courses. Professor Durham accepted a joint appointment in Public Health during 1973-75 and developed and taught the first two courses in basic biostatistics (statistical methodology) with some help from Professor Padgett. In 1975, Professor Robert Lewis joined Public Health to head the biostatistics and epidemiology development, and the Mathematics and Computer Science Department hired Assistant Professor Lee-Jen Wei, a new graduate in statistics from the University of Wisconsin-Madison, as a joint appointment with Public Health. Dr. Wei had some experience working as a graduate assistant in clinical trials and biostatistics at Wisconsin and was an excellent choice for the joint work with Public Health at the time.

Dr. Durham then returned to Mathematics and Computer Science full time in the fall 1975. Dr. Wei continued in the joint appointment position until the fall of 1977 when he came full-time to Mathematics and Computer Science. The current Department of Statistics continues to have a close interaction with the Department of Epidemiology and Biostatistics.

Besides L. J. Wei, another faculty member in statistics was also hired in 1975. He was Jeffrey A. Robinson who completed his doctorate in Statistics at Virginia Polytechnic Institute & State University that summer. This addition brought the number of statistics faculty members in the Department to seven, after Jim Buckley moved from the statistics program to the mathematical analysis group, although he still taught some courses in statistics and probability until leaving USC in 1977 for the University of Alabama-Birmingham.



Jeff Robinson



L. J. Wei

In the summer of 1976, Professor Eccles stepped down as the Department Head. Professor Robert M. Stephenson, a topologist, was named as the Chairman of the Mathematics and Computer Science Department for a three-year term. Professor William Linder, a computer scientist, was named as the Assistant Chair. Professor Taylor was asked by Stephenson to take the position as the Director of Graduate Studies in the Department, and Taylor accepted those duties until stepping down in January 1977, when Professor George Johnson, an applied mathematician, assumed the position. As Taylor accepted the role as Graduate Director, he persuaded Stephenson to reduce the number of "area committees" to make the Executive Committee a more reasonable size. Then, the six area committees with a representative on the Executive Committee were: Algebra and Number Theory Committee, Analysis and Topology Committee, Applied Mathematics Committee, Computer Science Committee, and Probability and Statistics Committee.

The statistics program further expanded during the Chairmanship of Bob Stephenson. In 1977, two rather significant events occurred. During the summer, the probability and statistics committee wrote a proposal to Dean James Durig to form a statistical consulting laboratory. The Probability and Statistics Committee members had kept records of their *gratis* consulting activities for researchers within the University for several years, and based on the extensive demand for statistical consulting, persuaded the Department and Dean to allow the establishment of the Statistical Laboratory as a consulting arm of the statistics program. A copy of the proposal is included in the appendices of this document. The StatLab was started in the fall of 1977 with Dr. Charles Locke as the "director and chief consultant." Locke was given a one-course per semester teaching reduction as support for his consulting activities, with the idea that any funding he generated could support his summer salary and/or graduate research assistant(s) for the StatLab. This was the meager beginnings of the current successful StatLab operation.



George Johnson

The other significant event in 1977 was the graduation of the first Ph.D. degree in Mathematics with emphasis on Statistics, Arthur Cherng-Huir Lee, under direction of Joe Padgett. Arthur had married another doctoral student who was emphasizing Statistics in her studies, Susan Shu-Chen Lee, and he took a faculty position at Benedict College in Columbia during 1977-1979 until Susan completed her Ph.D. degree under the joint direction of John Spurrier and Charles Locke. Between Arthur and Susan's graduations, the second doctoral student, Duan Wei, completed his dissertation under Bob Taylor's direction, and two others also received the Ph.D. with statistics emphasis, Peter Z. Daffer (directed by Taylor) and Douglas Frank (directed by Durham). A large number of M.S. graduates emphasized statistics and probability between the first one in 1972 (Eugene Collins) and the late 1970s. Several of those M.S. graduates continued studies and received Ph.D. degrees at USC and elsewhere: Arthur and Susan Lee (USC), Duan Wei (USC), Bill Roller (Virginia Tech), Rose Hamm (Auburn), André Lubecke (USC), Diane McNichols (USC), H. M. Hung (Iowa State), and Kung-Yee Liang (Washington).

Another banner year for the statistics program in Mathematics and Computer Science was 1978. In the spring of that year, two faculty members left for industry positions--Charles Locke went to Pennwalt Pharmaceuticals in Rochester, New York, and Jeff Robinson took a research position at General Motors Research Laboratories in Warren, Michigan. Upon Locke's departure, John Spurrier took over at the helm of the Statistical Laboratory in the spring of 1978. Replacements for Locke and Robinson were hired and an additional position was filled, bringing the size of the statistics faculty group to eight! The three assistant professors joining the faculty in the fall of 1978 were: Thomas Baker from Texas A&M University, Marlin Eby from the University of Florida, and Dennis Weier from the University of Missouri-Columbia. In addition, at the insistence of the statistics group, the name of the department was changed in the summer of 1978 to the Department of Mathematics, Computer Science and Statistics, and at the same time the statistics course designators were changed from MATH to STAT. Thus, courses in the Department were designated by CSCI, MATH, or STAT. The probability courses were given dual designators for cross-listing: MATH/STAT 511, MATH/STAT 710-711, and MATH/STAT 716 (Topics in Probability).

Finally, during the summer and fall of 1978, Professor Padgett headed the effort to draft proposals to the University administration and the South Carolina Commission on Higher Education to establish B.S., M.S., and Ph.D. degrees in Statistics as separate programs from Mathematics. Although some of the structure of the Mathematics degrees were retained, the three new degree programs then had a predominance of statistics and probability courses as major requirements. After discussion and approval in the Department, College of Science and Mathematics, and University Graduate School, the proposals were submitted to the Commission on Higher Education in 1979. After the usual long process, the new degrees were finally approved: the M.S. and Ph.D. in Statistics were first offered in May 1981, and the B.S. in Statistics was approved for May 1982. The first graduate in the new Ph.D. in Statistics program in the summer of 1981 was Carol A. Calhoun, who took a faculty position at East Carolina University in Greenville, North Carolina. Professor Durham became the Director of Undergraduate Studies in Statistics for the new B.S. degree in May 1982.

At the end of the Chairmanship of Bob Stephenson in the summer 1979, Professor W. Thomas Trotter was appointed as Chair of the Department and served two three-year terms until the summer of 1985. During 1979-1980, two very important actions were taken by Tom Trotter. One was to develop a plan to

separate the computer science programs from the joint department and form a new Department of Computer Science in the summer of 1980. This seemed like the perfect time to restructure the mathematics and statistics programs. Joe Padgett was serving as the chair of the Probability and Statistics Committee for 1979-80, and he and Trotter discussed forming two "programs" under the remaining Department of Mathematics and Statistics as soon as the Computer Science Department was formed. An *ad hoc* Restructuring Committee was set up to consider the creation of the new structure, and Professor Spurrier was appointed to serve on it. The Mathematics Program and the Statistics Program would each have a "Program Head" who reported to the Chair of the Department of Mathematics and Statistics. Since the statistics degrees were also about to be approved, the plan called for the Statistics Program faculty to create its own Promotion and Tenure Criteria and Procedures, separate from the Mathematics Program faculty, effective in the fall of 1980. Therefore, upon approval of the statistics degrees, the Statistics Program faculty was essentially autonomous except for the departmental budget, which remained combined.



Dennis Weier



W. Tom Trotter

1980-1985: "Large Variation" Years

During the six-year period from the summer of 1980 to the summer of 1985, there were enormous changes in the newly-named Statistics Program. Faculty changes occurred frequently, degrees in Statistics were approved, and plans for a separate department were in the works. A "faculty time-line" chart is included in the appendices showing the times that statistics faculty members arrived and departed over the 1970-2002 period. The Statistics Program Heads during 1980-85 were Robert L. Taylor (1980-82) and William J. Padgett (1982-85).

The faculty changes began in the fall of 1980, first with Professor Weier becoming the Statistical Laboratory Director. L. J. Wei went on leave for the year 1980-81 to the National Cancer Institute. In his position, Professor A. N. V. Rao from the University of South Florida was appointed as a Visiting Associate Professor for the academic year. Unfortunately, at the end of the fall semester, Professor Tom Baker resigned to accept a lucrative offer from Lockheed Corporation in Houston. A temporary instructor, Jim Ashton, who had received his M.S. in Statistics, was hired for the spring semester 1981 to teach classes in Baker's position.

At the end of the spring term, two other resignations shocked the Statistics Program. Professor Wei was offered a permanent position as a tenured full professor in the Department of Statistics at the George

Washington University, a well-known program with several prominent faculty members, and he resigned his position as an associate professor at USC. In addition, Professor Marlin Eby resigned at the end of the first summer session to accept a position with a consulting firm in Florida. Hence, the Statistics Program found itself faced with recruiting for three positions for the fall of 1981. Professor Don Edwards was hired after completing his Ph.D. at Ohio State University and joined the statistics faculty in August 1981. To fill the other two vacancies, Professor James Lynch of Pennsylvania State University came to USC as a Visiting Associate Professor and Mr. Jim Ashton was continued as a full-time instructor for the academic year 1981-82.

At the same time as the faculty turnovers were occurring in 1980-81, the program was continuing to progress. New courses and program changes were proposed and approved by the University. Specifically, the M.S. and Ph.D. degrees in Statistics were approved by the South Carolina Commission on Higher Education effective for May 1981, and STAT 790, Statistical Consulting Seminar, and STAT 890, Doctoral Seminar, were developed. Also, course enrollments had doubled since fall 1978. For example, the enrollment in STAT 515 in the fall of 1980 was 102 students, while STAT 201 was about 130 students in four sections. Also, the eight faculty members had a total of 29 papers published or in press with another 22 submitted, and had approximately \$140,000 in grant or contract support.

Several other changes occurred during 1981-82. Dr. Mark O. Marcucci was hired as an assistant professor starting in August 1982. Also highly recruited was Dr. Jane-Ling Wang from the University of California, Berkeley, who declined our offer and took a position at the University of Iowa (currently she is the Chair of the Division of Statistics at the University of California-Davis). One statistics position was lost at the end of the spring semester 1982 due to budget reductions, and to fill the remaining vacant position, Jim Ashton was continued for yet another year as a temporary full-time instructor. At that point, the number of full-time faculty positions in the Statistics Program was seven. In February 1982, W. Bee Johnson, an M.S. graduate in Statistics, was hired by Dr. Weier as the first part-time Assistant Director of the Statistical Laboratory, supported by funding generated in the StatLab. She also taught STAT 515 classes during the following academic year. In addition, the S.C. Commission on Higher Education approved the B.S. degree program in Statistics, to officially begin in June 1982. Professor Durham was appointed as the Undergraduate Director for Statistics at that time to begin organizing and coordinating the program. At the same time, the percentage of all the graduate assistants in the Department of Mathematics and Statistics who were studying statistics/probability continued at the constant level of about 33%.

Additional dramatic changes in the faculty occurred during 1982-83. Professor Dennis Weier, who had been Director of the Statistical Laboratory since August 1980, resigned in December 1982 to accept a position at Rockwell International in Golden, Colorado. Professor Don Edwards took the StatLab Director position beginning in January 1983, with Bee Johnson continuing as the part-time Assistant Director. Ms. Johnson taught STAT 515 during the spring semester 1983 to partly cover the vacancy created by Weier's departure. A major loss at the end of the academic year was the resignation of Professor Robert Taylor effective in August 1983. He took a position as full professor in the Department of Statistics and Computer Science at the University of Georgia. His departure, in addition to Professor Wei's two years earlier, resulted in a loss of senior leadership that greatly affected the program. To fill one vacancy, Dr. Che Fang, who completed his doctoral degree at the University of Pittsburgh, was hired beginning in August 1983. The other vacancy for 1983-84 was filled by Dr. Ioannis Koutrouvelis as a Visiting Associate Professor from Virginia Commonwealth University. Koutrouvelis had received his Ph.D. from SUNY at Buffalo under direction of Professor Emanuel Parzen. After the year visiting at USC, he took a faculty position back in his native Greece. Another significant staff change occurred in the summer of 1983 with Bee Johnson leaving the StatLab, and Pam Spurrier being appointed as the Assistant Director, again on a part-time basis funded by contracts to the Lab.

There were only six regular faculty members continuing in the academic year 1983-84, along with the visitor Koutrouvelis: Steve Durham, Don Edwards, Che Fang, Mark Marcucci, Joe Padgett, and John Spurrier. The first two adjunct appointments to the Statistics Program were made in 1984, Dr. Robert Jannarone in Psychology and Dr. Edgar Hickman in Management Science. These faculty members did not teach in the Statistics Program proper, but their affiliations strengthened the interdisciplinary relationships of the Program. The reduction in the faculty caused great concern for the health of the Program. The statistics faculty members were also concerned about possible changes in the Department of Mathematics and Statistics structure that were being discussed by the Chair, Dr. Tom Trotter, and the Executive Committee. These changes included "recombining" the Mathematics Program and the Statistics Program as one "unit." The concern was expressed quite clearly in the Statistics Program's Annual Report in June 1983 as follows:

As this report shows, the statistics faculty is continuing to work toward strengthening the statistics program within the Department, College, and University through its teaching, research, service, and consulting efforts. Unfortunately, the continued loss of senior and experienced faculty to other universities and industries is hampering the progress of the program. The recruiting and hiring of quality faculty in a highly competitive market continues to be a problem. The current proposal to combine the hiring committees in statistics and mathematics within the Department into one hiring committee for both areas will be quite detrimental to hiring efforts in statistics for 1983-84. Also, the "recombination" of promotion and tenure procedures of the statistics and mathematics programs will hamper recruiting efforts. The statistics faculty is in total disagreement with these administrative changes, and it is predicted that we will face an even greater chance of losing recruited statisticians to separate statistics departments because of them. It is quite clear that continued, or even further separation, of the two programs would be more beneficial. It is hoped that the ground lost by staff reduction, and replacement of senior and experienced faculty by junior faculty, can be made up in the next year or so.

The statistics faculty has requested that an outside review of the entire statistics area at the University of South Carolina be performed as early as possible in the fall semester of 1983-84. It is hoped that this can be done, and a plan for further strengthening and developing statistics at U.S.C. can be devised to enhance the local and national visibility of the University in this area.

The Program was able to recruit a new tenure-track faculty member for 1984-85. He was Professor Kai Fun Yu who had received his Ph.D. at Columbia University and spent six years on the faculty of Statistics at Yale. He joined the USC faculty in August 1984 as an Associate Professor. To fill a second vacancy, the Statistics Program hired Ms. André M. Lubecke, a statistics Ph.D. student in her last year of study, as a temporary full-time instructor for 1984-85. It is interesting to note also that the number of undergraduate statistics majors had reached 44 in 1983-84, in just the second year of the B.S. degree program in Statistics, and twelve students graduated during that academic year. Further, the program's first African-American Ph.D. graduate, Ronald Patterson, was produced in May 1984 (directed by Bob Taylor) and accepted a position on the faculty of the Department of Mathematical Sciences at Georgia State University, and continues there at this time.

The outside review mentioned in the above quote from the 1982-83 Annual Report of the Statistics Program did occur. However, it was limited in scope to the Statistics Program rather than a comprehensive review of statistics offerings in the University. The review was authorized by the Provost, Dr. Francis T. Borkowski, and the Dean of the College of Science and Mathematics, Dr. James R. Durig. They instructed the Statistics Program to conduct an intensive self-study, which was completed in April 1984. An outside review team consisting of Professor Daniel Solomon, Head of the Department of Statistics at North Carolina State University, Professor Herbert T. David of Iowa State University, and Professor John Van Ryzin of Columbia University, visited the Program over two days during the first week of May 1984. The team was chaired by Professor Solomon, and a preliminary report was presented to the Provost and the Dean by the team at the end of their two-day visit. Their report recommended the immediate formation of a separate Department of Statistics consisting of the faculty and students in the existing Statistics Program. The recommendations were not acted upon by the Provost or Dean for several months, during which time some faculty members received offers from industry and other academic institutions. As these faculty members were making decisions on the offers, the Provost decided late in the fall semester of 1984 to form the Department of Statistics effective July 1, 1985.

In the meantime, faculty turnover continued in the statistics program. Mark Marcucci resigned at the end of the fall semester 1984 to take a position at General Mills. Dr. James R. Hussey replaced Marcucci for the spring semester 1985 as a visiting assistant professor, after having completed his doctoral degree at Virginia Tech.

The decision to form the Statistics Department initiated a great amount of planning and preparation by the statistics faculty, and many discussions with the Chair of the Mathematics and Statistics Department, Tom Trotter, and the departmental Executive Committee. Agreements had to be made mainly concerning the proportions of the existing budget that would be set up for the Statistics Department and the Mathematics Department. Eventually, the Office of the Provost, upon an analysis and recommendation of the two budgets by Associate Provost Daniel J. Antion, established a reasonable budget for each department. The next agreement concerned space for the new Statistics Department, which had to be found within the space then occupied by the Department of Mathematics and Statistics in LeConte. The Department of Computer Science, which had been created in 1980, had moved in 1982 from the rooms in LeConte 423, where its main office was located, to the second floor of LeConte. The Statistics Program had occupied rooms 423 with the Statistical Laboratory since 1982, and that area became the Department of

Statistics Office, with the StatLab moving to rooms 418A-C and 420A. All of the faculty offices were in the 420-complex, 420A - 420K, and 420B became the department's conference room.

In June 1985, Professor Padgett was appointed by Dean Durig to be the Chair of the new Department of Statistics, and Professor Spurrier accepted the position of Assistant Chair and Director of Graduate Studies, effective on July 1, 1985. The statistics faculty began recruiting for a vacant position, plus the regained position that was lost to budget reductions in 1982, to bring the number of regular faculty members to eight. Professor James Lynch, who had visited in 1981-82 from Penn State, was interviewed in early spring and hired as a tenured Associate Professor beginning August 16, 1985. He replaced Dr. Che Fang who left after the previous spring semester. Also, Dr. Lori A. Thombs accepted an offer in late spring to join the new department as an assistant professor that August after completing her Ph.D. degree at Southern Methodist University.



Jim Lynch

Don Edwards

Lori Thombs

New Beginnings: The Department of Statistics 1985-1990

During June 1985, the statistics faculty began finalizing plans for the startup of the new department. Another faculty member, Dr. Richard Hathaway, who had obtained his Ph.D. degree at Rice University and joined the applied mathematics group at USC in 1982, decided that he would like to become a faculty member in the new Department of Statistics and submitted that request to Dean Durig. Even though Professor Hathaway was hired as an "applied mathematician," he had a mathematical statistics background in his graduate studies and had written his dissertation jointly with Professors Richard Tapia and James R. Thompson on numerical maximum likelihood estimation for normal mixtures. He brought the initial faculty size of the Department of Statistics to nine for 1985-86: Professors Durham, Edwards, Hathaway, Hussey (continued as visiting assistant professor), Lynch, Padgett, Spurrier, Thombs and Yu.

A staff member from the combined Mathematics and Statistics Department, Ms. Marian Kleckley, also moved to the Statistics Department and another staff member, Ms. Karla Runyon was hired as the administrative assistant to the Chair. Ms. Kleckley set up the Departmental Office operation quickly and had it ready on July 1, stocking supplies, securing a copy machine, arranging office furniture, and organizing departmental files. She had unbounded energy, and on one occasion, upon returning from the Joint Statistical Meetings in Las Vegas in August 1985, Professor Padgett found that while the faculty were away at the meetings, Ms. Kleckley had rearranged the entire office, getting help from some students to move the heavy desks, file cabinets, etc.! Her level of energy was even more amazing, considering the fact that she had to retire on June 30, 1986, since she had turned 70 years old! Upon Marian's retirement, Ms. Laura Joy joined the office staff in that position.



Statistics Faculty/Staff 1985: (Left top to right bottom) Steve Durham, Don Edwards, Rick Hathaway, Jim Hussey, Marian Kleckley, Jim Lynch, Joe Padgett, John Spurrier, Pam Spurrier, Lori Thombs, Kai Yu. (Not pictured: Karla Runyon)

The new department opened for business on July 1, 1985. John Spurrier had the idea that he would be the first person in the new department that morning, and got there very early. Unfortunately for John, Rick Hathaway was an early riser and was already in his office working when John arrived! So, Hathaway was the first person to actually do work in the Department of Statistics on the day it officially opened! Another first occurred in August when André P. Lubecke was awarded the first Ph.D. degree under the Statistics Department.

The Department got off to a good start with increased enrollments in STAT 201, and during the fall semester, proposed the new course STAT 110 on descriptive statistics, following the national trend toward "statistical literacy" at the time. STAT 520, Time Series Methods, was proposed to be offered beginning in the fall of 1986. In addition, five new graduate courses were proposed that fall: STAT 720 (Time Series Analysis), 706 (Design of Experiments), 730 (Multivariate Analysis), 740 (Statistical Computing), and 761 (Reliability and Life Testing). These courses had been taught as special topics courses in the past, and were proposed to "flesh out" the graduate offerings as recommended by the external review team in May 1984. At the same time, STAT 514, a popular course with an enrollment of 53 students in the fall semester 1985, was revised and renumbered as STAT 510 (Introduction to Applied Probability). There were also 13.5 graduate teaching assistants supported by instructional assistantships and 2-3 others supported as research assistants on grants and in the StatLab. The number of undergraduate majors was about 35-40 including some double majors. That fall, the statistics faculty had over \$160,000 in outside research grants and contracts and was very active in the publication of research papers. Hence, the Department's first semester was very busy, and very productive, and the faculty had made a sincere commitment to developing a strong department and programs!

Another positive occurrence in 1985-86 was a tremendous increase to over fifty applications for graduate study in the new Department for 1986-87. This was attributed perhaps to the increased visibility of Statistics as a result of forming the separate department, in addition to increased recruiting efforts of the Graduate Director. During 1984-85 while still under the Mathematics and Statistics Department umbrella, there had been only eight applicants for admission to the statistics graduate programs!



Statistics Faculty/Staff 1987: (L-R) John Spurrier, Dolores Scott, Jim Lynch, Steve Durham, Julie Flowers, Don Edwards, Lori Thombs, Frank Guess, Laura Joy, Pam Spurrier, Kai Yu, Joe Padgett. (Not pictured: Don Hoover and Karla Runyon Nevils.)

Changes in staffing and faculty continued over the next several years. In the summer of 1986, in addition to the retirement of Ms. Kleckley, Professor Hathaway resigned to take a position at Georgia Southern University, near his home town. Also, Professor Hussey left, moving back to his home state of Maine. Replacing these faculty members were Dr. Frank M. Guess, hired as an assistant professor after receiving the Ph.D. from Florida State University and spending two years on the faculty at N.C. State, and Ms. Julie D. Flowers, hired as a full-time instructor. Julie had received her M.S. degree in Statistics at USC in 1984, and was hired to continue development of and teach the new course, STAT 110. Unfortunately, a four to five percent budget cut for 1987-88 forced the department to not renew Ms. Flowers as an instructor for the following year, but she continued as a staff member, becoming the part-time Assistant Manager of the Statistical Laboratory in the fall 1987, funded by StatLab contracts.

Another faculty member was hired in 1987 to become the StatLab Director, replacing Don Edwards in that capacity. Dr. Donald Hoover received the Ph.D. in Statistics from Stanford University and joined the department in August 1987, taking over the Statistical Laboratory in January 1988. Also, Karla Runyon Nevils left the Chair's Administrative Assistant position and Ms. Dolores Scott was hired to replace Karla in the office in July 1987. In the spring 1988, Dr. Robert Launer was hired in a unique position with a joint appointment as a faculty member in Statistics and a staff member in the University Office of Sponsored Programs and Research (SPAR), effective that July, bringing the number of faculty in the Department to 9.5. One of Launer's duties in the Department was to help organize short courses on Statistical Quality Control for industrial personnel. He and Joe Padgett began the work of drafting a proposal to set up what eventually became the Center for Reliability and Quality Sciences (RQS Center), after final approval by the S.C. Commission on Higher Education in May 1990. Professor Lynch assumed the duties of RQS Center Director that summer.

At the end of the academic year 1989, there were more faculty changes. Professors Guess and Hoover resigned, Guess to accept a position as an associate professor in the Department of Statistics at the University of Tennessee and Hoover to take an NIH position affiliated with Johns Hopkins University. Dr. Launer volunteered to take the Directorship of the StatLab upon Don Hoover's departure and did so in the summer of 1989, moving full-time to Statistics from the SPAR Office. Dr. John M. Grego, with a Ph.D. from Pennsylvania State University, was hired in Guess' position. These changes brought the number of full-time faculty positions back to nine.

During 1988 and 1989, course enrollments continued to increase, with STAT 110 enrolling more than 100 in the fall 1989, and STAT 201 breaking 300 that semester for the first time. New courses proposed

and approved were STAT 750, Response Surface Analysis, in 1988 and STAT 517, Statistical Computing, in 1989.

In the summer of 1990, Dr. Kai Yu resigned to accept a position at NIH in Bethesda, Maryland. In his place, Dr. Ping Sa was hired as a visiting assistant professor. Ping had just completed her Ph.D. degree in Statistics at USC under direction of Don Edwards, and took the visiting position while her husband finished his graduate studies in engineering. Also that summer, Pam Spurrier left the Statistical Laboratory as its Manager and W. Holmes Floyd-Finch was hired in that position in August.

1991-1995: Further Growth and Change

To replace Professor Yu, in 1991 Dr. Frances Stewart was hired as an assistant professor. She obtained her doctorate at the University of Georgia under direction of Professor Ralph Bradley, specializing in experimental design. She joined in the development of a short course on "Designing for Quality" through the Center for Reliability and Quality Sciences by Professors Lynch, Edwards, and Grego, and all four jointly taught the three-day course. In addition, the academic course on design of experiments at the undergraduate level, STAT 506, was proposed that year, along with STAT 770 (=BIOS 805), Categorical Data Analysis, as a cross-listed course with the Department of Epidemiology and Biostatistics.

Arising out of the need for graduate study in applied statistics by industry, business, and government personnel, during 1990-1992 a proposal to offer a Master of Industrial Statistics degree was drafted by Professor Padgett and submitted through University channels to the Commission on Higher Education. This M.Indust.Stat. degree was finally approved to be offered in 1994. The degree program was unique in that it required at least two years of work experience for admission, and up to nine credit hours of courses outside the discipline related to statistics and to the student's work were allowed. It also required a "term paper" on a project, typically derived from the student's work experience, instead of a formal master's thesis. This degree has become popular and by academic year 2002-03, most of the courses required for the program have been offered via distance education over closed-circuit TV.



John Grego



Bob Launer



Fran Stewart

In the spring of 1992, Dean Durig allowed the hiring of Dr. Jeffrey Eisle as an assistant professor. Eisle received the Ph.D. from the University of Michigan and had obtained a post-doctoral appointment

with Ciba Geigy in Switzerland. Hence, he was given immediate leave without pay for 1992-93 to accept the post-doctoral position. This gave the department "virtually" ten faculty positions at that time, although Eisle never actually came to the University. In the spring of 1993, Eisle decided to stay in Switzerland, and the department recruited Dr. Walter W. Piegorsch as an associate professor beginning in August 1993. Piegorsch had been in a research position at NIEHS in Durham, North Carolina, for nine years after receiving his Ph.D. from Cornell University in 1984. This addition brought the faculty size to ten (in reality) for 1993-94.

In the summer 1993, Professors Launer and Stewart both resigned. Launer "retired" and Stewart accepted a position at Johnson & Johnson Research in Pennsylvania. Two visitors were hired for 1993-94 in these positions, Dr. Zachary Stoumbos from Virginia Tech and Dr. Xiaomi Hu from the University of Missouri-Columbia. Also, Professor Padgett ended his second four-year term as Department Chair and Professor Spurrier assumed a three-year appointment as Chair on July 1, 1993. In addition, Lauren Scott replaced Sherry Turner in the office staff at the end of June, who had been hired when Krissy Tietze left in 1991. Krissy had replaced Laura Joy in 1988 and left to complete her training as a nurse.

The academic year 1994-95 continued the personnel changes with the hiring of two assistant professors, R. Todd Ogden with a Ph.D. from Texas A&M University and R. Webster West who obtained his doctorate at Rice University. Also that fall, Dolores Scott left the position as Administrative Assistant and was replaced by Ms. Sue Darlington, who had worked for several years in the Mathematics Department. In the spring of 1995, Professor Durham announced his decision to retire early, which he did in May. Replacing Durham was Dr. Anthony Rossini as an assistant professor. Rossini had obtained a doctoral degree from Harvard in biostatistics and spent a year as a visiting faculty member at the Penn State Medical School in Hershey.

1996-2002: Coming of Age

During the six-plus years 1996-2002, the Department of Statistics continued extraordinary growth and gained status as a strong program among the many well-known statistics departments in the Southeast. Professor Spurrier completed his term as Department Chair, and Professor Padgett assumed the position again on July 1, 1996. Also, at the end of June the Department Office moved to the vacated main office complex of the Computer Science Department in LeConte 214-216-218. Also, two faculty members (Edwards and Spurrier) and the graduate teaching assistants moved from the fourth floor into offices on the second floor of LeConte. In the spring 1996, Lauren (Scott) Rachwal left the office staff and Kim Aaron was hired as her replacement. Later that fall, Sue Darlington was replaced by Nancy Brazzell as the Chair's Administrative Assistant and Business Manager.

In the fall 1997, Professor Rossini resigned to move to Seattle and a recent M.S. graduate, Trevor Craney, was hired for the spring 1998 as a temporary instructor to cover classes. To fill the faculty vacancy for the fall of 1998, Dr. Brian Habing was recruited as an assistant professor after completing the doctorate at the University of Illinois at Urbana-Champaign. Also in March 1998, Anita Wood joined the office staff upon the departure of Kim Aaron, and Debra Williams became the Business Manager when Nancy Brazzell resigned in May.

In October 1998, the new Dean of the College of Science and Mathematics, Dr. Gerard Crawley, began external reviews of all departments and programs in the College. The Statistics Department volunteered to be the first to be reviewed, and it undertook a detailed self-study in November-December 1998 in preparation for the review. Dean Crawley selected a review team consisting of Professors Ronald Randles (University of Florida), J. Stephen Marron (University of North Carolina at Chapel Hill), and Daniel Solomon (N. C. State University) and Dr. Sally Morton (Rand Corporation). Dr. Randles chaired the review team, which visited the department in February 1999. The report of the review team praised the department's teaching and research strengths and made several recommendations for improvements and to address obvious needs. Among the recommendations was one to hire a full-time instructor to handle the coordination of STAT 110 and 201 as well as to teach sections of these courses. Ms. Tammiee Dickenson was hired as the instructor effective August 16, 1999. She had completed the M.S. degree in Statistics at

USC in 1996 and had been working in the University's Office of Institutional Planning and Assessment, and had previous teaching experience in high school mathematics as well as a statistics teaching assistant and adjunct instructor. In addition, based on the team's recommendations, plans were made to hire a full professor for the fall of 2000. Professor Edsel A. Peña was hired in that position. He had been a professor at Bowling Green State University and a visiting professor at the University of Michigan after obtaining the Ph.D. in Statistics at Florida State in 1986. These additions brought the Statistics faculty size to twelve.

Several significant forward steps came in the late spring and fall of 2000, including the arrival of Professor Peña. The entire department finally moved from the fourth floor of LeConte to the second floor, thus having a reasonable amount of contiguous space for faculty, students, staff, classes, and laboratories. A Certificate of Graduate Study in Applied Statistics, consisting of eighteen credit hours of approved coursework, was begun. In particular, this provided a "halfway" point for Master of Industrial Statistics students as well as a "minor" in statistics for doctoral students in other disciplines. Several graduate courses were being offered via closed-circuit TV at a distance for students in the M.Indust.Stat. and the Certificate programs. The total number of graduate students reached forty, including twenty-six full-time graduate assistants in the department. Total course enrollments had more than doubled since the department began in the fall of 1985. The StatLab hired Ms. Michele Nichols as a grant-funded full-time Assistant Manager in May 2000. Michele had completed her B.S. and M.S. (2000) in Statistics at USC. Professor Ogden requested leave without pay to work on a project at Columbia University during 2000-2001, and Professor Thombs was granted leave to visit Rice University that same year. Two visitors were hired in these positions, Dr. Susan Milton from Radford University and Dr. Robert Lund from the University of Georgia (fall only).

In the spring of 2001, Dean Crawley approved a position and the recruitment of a joint appointee between the Departments of Biological Sciences and Statistics in the area of "bioinformatics". Dr. Peter J. Waddell, a Ph.D. graduate of Massey University, New Zealand, in zoology, was hired as an associate professor in this capacity. Waddell had also studied statistics in post-doctoral positions and was doing research in molecular evolution, genetics, and microarray data analysis. This addition brought the Statistics faculty size to 12.5 for academic year 2001-2002. Unfortunately, Professor Ogden resigned to accept an offer to remain at Columbia University, and Obaid Al-Saidy, who completed his Ph.D. degree in Statistics at USC in the summer 2001, was hired as a visiting assistant professor for 2001-2002 to fill the vacancy.

Professor Padgett completed his five-year term as Department Chair on June 30, 2001, and Professor Lynch was appointed as Chair by Dean Crawley effective July 1. In 2001-2002, the department had further increases in enrollments, partly due to the change in requirements for all undergraduates in Science and Mathematics to take at least one course in statistics. Biological Sciences majors were required specifically to take at least STAT 201 as their statistics requirement which boosted the enrollments significantly.

To replace Professor Ogden, the department hired Dr. Kerrie Nelson beginning August 2002 after receiving the Ph.D. in Statistics at the University of Washington. An additional position was granted to the department, in part due to increased enrollments and other activities, and Dr. Nancy Glenn was hired upon completing the Ph.D. in Statistics at Rice University in the spring 2002. She had been an undergraduate statistics major at USC, receiving the B.S. in Statistics in 1996, as well as a B.S. in Mathematics here in 1988. Also, Ms. Georgianna Baker joined the Department in August 2002 as a full-time instructor and Assistant to the Chair. Georgie had completed the M.S. degree in Statistics at USC in 1996 and worked in quality control for six years. These hires increased the faculty size to 14.5 for the fall 2002. Another change in staff occurred in the Statistical Laboratory during the summer of 2002 when Holmes Finch resigned as Manager to take a position outside the University. (He also completed the Ph.D. degree in Educational Measurement in the fall 2002.) Michele Nichols moved to the position as StatLab Manager upon Finch's departure.

The "Grown" Department: Fall 2002

In the fall of 2002, the Statistics Department has 14.5 full-time equivalent faculty members. These include six full professors (Edwards, Lynch, Padgett, Peña, Piegorsch, Spurrier), four associate professors (Grego, Thombs, Waddell, West--Waddell is joint with the Biological Sciences Department), three assistant professors (Glenn, Habing, Nelson), and two full-time instructors (Baker, Dickenson). There are also three full-time staff members (Office: Williams, Wood; StatLab: Nichols). (See the Appendices for the current listing of faculty and staff.) The Department is teaching over 1,400 students per semester in its classes. There are almost fifty graduate students, thirty of whom are graduate assistants, and over twenty undergraduate statistics majors are enrolled. Alumni of the statistics programs are employed in industry, business, government, and academic institutions nationwide. The faculty members are very active in research and scholarly activities, perform services for professional organizations and the public, and include five Fellows of the American Statistical Association, one Fellow of the Institute of Mathematical Statistics, and two elected members of the International Statistical Institute. The Department is known for its teaching excellence, and several faculty members have won awards for outstanding teaching (two Amoco Teaching Awards, a Mungo Undergraduate Teaching Award, a Mungo Graduate Teaching Award, the National Mu Sigma Rho Statistical Education Award, and a Governor's Professor of the Year Award). The faculty also obtains significant outside funding for its research activities--in the fall of 2002 the Department has over \$1.3 million in outside funding in effect from organizations such as the NSF, NIH, ARO, NOAA, South Carolina State agencies, and industrial concerns.

Within the Departmental structure, the Statistical Laboratory offers statistical analysis and consulting services to researchers within the University and obtains significant contracts from industry, business, and government for statistical work. In addition, the Center for Reliability and Quality Sciences offers training for technical and managerial personnel in quality improvement areas and provides a focal point for research on reliability theory and statistical process control.

More than fifty years ago, it was predicted by H. G. Wells that statistical thinking would some day be as important for efficient citizenship as the ability to read and write. That prediction certainly has come true, and perhaps has driven the growth in student enrollments and brought the importance of the field of statistics into focus. Fueled by the "information age," the Department and its programs should continue to experience growth and success over the next several decades!

Appendices

Some of the Mathematics Faculty: 1971-1973



James H. Wahab, Head



Standing: T. Hoyle Lee, William Queen, Wayne Carter. Seated, clockwise: William H. Caldwell, Thomas Markham, Richard Croxton, Ed Scheiblich, James Roberts, Karl Matthies.



Standing: Robert L. Taylor, Charles Winton, Joseph Deeds, William J. Padgett, Manfred Stoll, Larry Hanafy, David Lovelady, Robin Textor. Seated, L-R: Peter Harley, Marjorie Johnson, Lillian Perkins, Ted Sullivan, Ray Lytle.



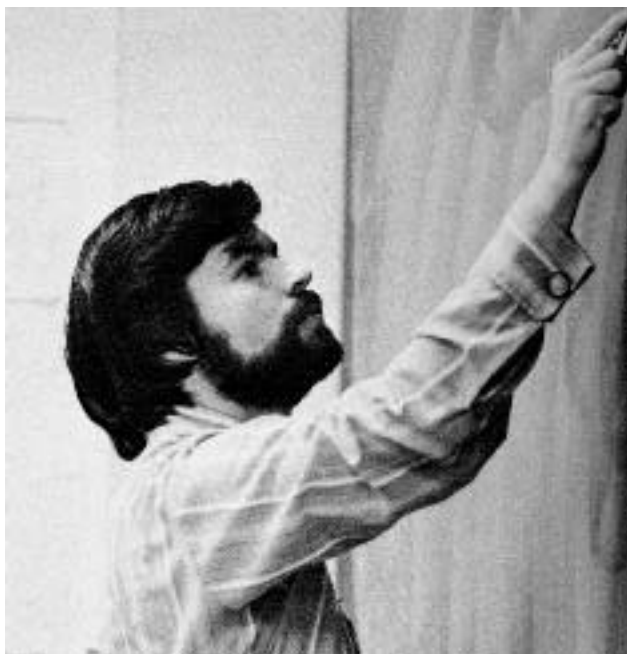
L-R: Jeong S. Yang, Robert Phillips, R. Fuller, Paul Sperry.

Some of the Computer Science Faculty: 1973

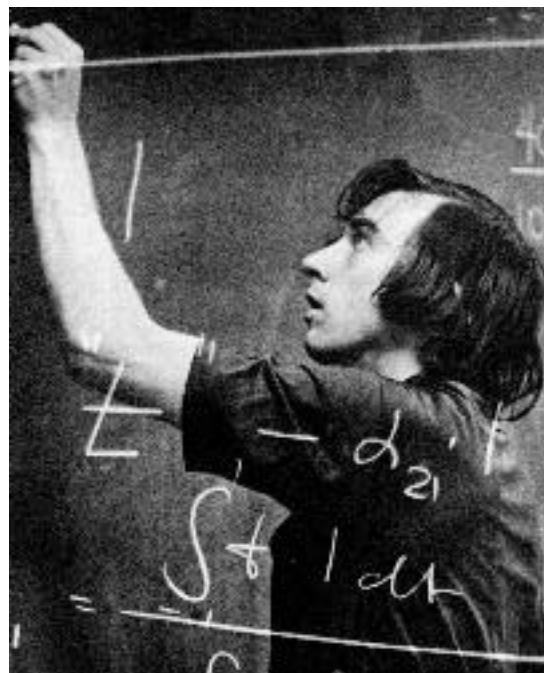


L-R: Robert Oakman, Buddy Eisenstein, Penny Crane, Brian Gordon, William Eccles, William Linder.

Students Emphasizing Statistics around 1973



Clark Archer, MS



Bill Roller, MS



Elizabeth Taylor (BS and MS), Carol A. Calhoun (BS and PhD), and Dorsey Glenn (BS and MS)