

Annual Report
March 16, 1995 - March 15, 1996

Department of Statistics
University of Florida
Gainesville, FL 32611-8545

June, 1996

Contents

1	Research Activities: March 16, 1995 - March 15, 1996	7
2	Non-Refereed Publications	13
3	Technical Reports	15
4	Grants	17
5	Invited Papers, Seminars and Short Courses	22
6	Contributed Papers	26
7	Seminars At The University of Florida	29
8	International Activity	30
9	Editorial Activities	31
10	Professional Committees and Activities	32
11	Scientific Review Activities	35
12	College And University Service	35
13	Teaching Awards	38
14	Awards and Other Recognitions of Scholarship	38
15	Degrees Awarded	38
16	Courses Offered	41
17	Textbooks Authored By Our Faculty	42
18	IFAS Department of Statistics	44
19	Division Of Biostatistics	45
20	Pediatric Oncology Group	45

Faculty

- Agresti, Alan G.**, Professor, Ph.D. Wisconsin 1972.
- Bohn, Lora L.**, Assist. Professor, Ph.D. Ohio State University 1992.
- Booth, James G.**, Assoc. Professor, Ph.D. Kentucky 1987.
- Carter, Randolph L.**, Professor, Ph.D. Iowa State 1976.
- Chang, Myron N.**, Assoc. Professor, Ph.D. Maryland 1984.
- Conlon, Michael**, Res. Assoc. Professor, Ph.D. Florida 1982.
- Cornell, John A.**, Professor, Ph.D. Virginia Polytechnic 1969.
- Gieser, Peter**, Assistant in Statistics, Ph.D. University of Florida 1993
- Ghosh, Malay**, Professor, Ph.D. North Carolina 1969.
- Hobert, James**, Assistant Professor, Ph.D. Cornell University August, 1994.
- Huzurbazar, Aparna**, Assistant Professor, Ph.D. Colorado State University, Fort Collins, CO., May, 1994.
- Kepner, James**, Res. Asso. Professor, Ph.D. Iowa 1979.
- Khuri, André I.**, Professor, Ph.D. (Math.) Florida 1969, Ph.D. (Stat.) Virginia Polytechnic 1976.
- Littell, Ramon C.**, Dir. IFAS Stat. and Professor, Ph.D. Oklahoma State 1970.
- Longmate, Jeffrey A.**, Research Assist. Professor, Ph.D. Oregon State 1986.
- Lorica, Fe G.**, Lecturer, M.S. Alabama 1991
- Marks, Ronald G.**, Dir. Div. Biostat. and Professor, Ph.D. Florida 1974.
- Martin, Frank G.**, Professor, Ph.D. North Carolina State 1959.
- McGorray, Susan**, Res. Assist. Professor, Ph.D. Washington 1990.
- Moorhead, Jacquelyn E.**, Assoc. In Statistics, M.S. Florida 1985.
- Pendergast, Jane F.**, Res. Assoc. Professor, Ph.D. Iowa 1979.
- Portier, Kenneth M.**, Assoc. Professor, Ph.D. North Carolina 1979.
- Presnell, Brett D.**, Assist. Professor, Ph.D. Florida State 1990.
- Randles, Ronald H.**, Professor and Chair, Ph.D. Florida State 1969.

Rao, P.V., Professor, Ph.D. Georgia 1963.
Ripol, Maria, Visiting Lecturer, M.S. 1994
Rosalsky, Andrew J., Professor, Ph.D. Rutgers 1978.
Scheaffer, Richard L., Professor, Ph.D. Florida State 1968.
Shuster, Jonathan J., Dir. POG and Professor, Ph.D. McGill 1969.
Vining, G. Geoffrey, Assoc. Professor, Ph.D. Virginia Polytechnic 1988.
Wackerly, Dennis D., Assoc. Chair and Professor, Ph.D. Florida State 1973.
Winner, Lawrence H., Lecturer, Ph.D. North Carolina State 1993.
Yang, Mark C.K., Professor, Ph.D. Wisconsin 1970.

Adjunct Faculty

Chew, Victor, Courtesy Professor, B.Sc. (H), University of Western Australia 1948.
Pollock, Bradley, Assoc. Professor, Ph.D. UCLA 1988.
Yarandi, Hossein, Assoc. Professor, Ph.D. Indiana 1984.
Gomatam, Shanti, Post-Doctoral Associate, Ph.D. Florida State 1995.

Staff

Liberal Arts And Science

Angie Booth, Secretary
Derrius Marlin, Computer Operator Specialist
Linda Padgett, Senior Word Processor Operator
Rozear, Carol, Administrative Assistant
Saddler, Marilyn, Senior Secretary¹
Harvin, Sally, Senior Fiscal Asst.

¹Budgeted from IFAS

IFAS Staff

Harrison, Jay, Senior Statistician

Smith, Author R., Senior Comp. Prg.-Anl.

Somerville, Pam S., Secretary

Biostatistics Staff

Meacham, Carole, Secretary

Crews, Monroe A., Administrative Assistant

Hendrix, Chad., Clerk Typist

Padgett, Phil, Computer Operator Manager.

POG Staff

Barber, Pearl, Sr. Clerk

Boyd, Andrew, Sr. Computer Support Specialist

Camacho, Ramona, Senior Clerk

Conley, Scott, Computer Sup. Analysis

Gorman, Ellen, Statistician

Ingle, Dina C., Office Manager

Lewis, Kelly, Senior Secretary

Vann, Andrea, Statistician

Watson, Darlene, Senior Statistician

Wilkerson, Charlotte, Statistician

Administrative Professional

Bai, Zhanying, Biostatistics, Senior Data Manager

Bennett, Gary, CRD Comp. System

Blum, Barbara, Coordinator Computer Applications

Clary, Lisa R., Coordinator Computer Applications

Hunter, Doug D., Coordinator Research Programs/Services

Kubilis, Paul, Biostatistics, Manager of Biostatistics Consulting Laboratory

Opel, Mary R., Coordinator Research Programs

Ott, Michelle, Coordinator Computer Applications

Sullivan, James, Coordinator, Statistical Research

Sun, Yuanshan, Biostatistics, Senior Statistician

Graduate Students

Ajmani, Vivek	Kang, Tae-Woon	Shiau Deng-Shan
Alvers, Brian	Kim, Yeong-Hwa	Siegenderf, Adriane
Bai, Zhanying	Kincaid, Charles	Song, Mi-Seon
Battal, Kadir	Kowalski, Scott	Sorescu, Alina
Burnett, Frank	Lee, Juneyoung	Stauffer, Michael
Chen, Haoyi	Levin, Jeffrey	Steible, Christine
Choi, Joongkyn	Li, Yan	Tanaka, Yoko
Coull, Brent	Lim, Kil-Sup	Tang, Sheng-Shinan
Cox, Thomas	Lohman, Kurt	Teng, Chi-Hse
Craney, Trevor	McGoff, Philip	Tran, Marc
Crans, Gerald	Morrison, Scott	Um, Yonghwan
Curtis, Keith	Mukherjee, Robin	Valeroso, Elsie
Dallas, Michael	Nations, David	Walker, Pamela
Garvan, Cynthia	Paul, Sophia	Wang, Chen-Pin
Ghosh, Atlanta	Quan, Xiu-chi	Wiggins, Jane
Gueorguieva, Ralita	Robinson, Kevin	Wilkerson, Carl
Harrison, Jay	Sarkar, Somnath	Yin, Ming
Hartless, Glen	Shah, Neena	Zheng, Beiyao
Hartzel, Jonathan	Sheridan, Scott	

1 Research Activities: March 16, 1995 - March 15, 1996

(a) Books

Agresti, A., (1996), *An Introduction to Categorical Data Analysis*, New York: Wiley.

Scheaffer, R.L., W. Mendenhall III, and R.L. Ott (1996) *Elementary Survey Sampling*, 5th Ed., Belmont, CA: Duxbury Press.

Scheaffer, R.L., M. Gnanadesikan, A. Watkins and J.A. Witmer (1996) *Activity-Based Statistics; Instructor Resources*, New York: Springer-Verlag.

Scheaffer, R.L., M. Gnanadesikan, A. Watkins and J.A. Witmer (1996) *Activity-Based Statistics; Student Guide*, New York: Springer-Verlag.

Wackerly, Dennis D., Mendenhall, William, and **Scheaffer, R.L.**, (1996), *Mathematical Statistics with Applications*, 5th Ed., Belmont CA: Wadsworth.

(b) Articles

Kim, D., and **Agresti, A.**, (1995), "Improved exact inference about conditional association in three-way contingency tables," *Journal of the American Statistical Association*, 90, 632-639.

Agresti, A., Ghosh, A., and Bini, M. (1995), "Raking Kappa: describing potential impact of marginal distributions on measures of agreement," *Biometrical Journal*, 37, 811-820.

Agresti, A., (1995), "Logit models and related Quasi-Symmetric loglinear models for comparing responses to similar items in a survey," *Sociological Methods and Research*, 24, 68-95.

Booth, J.G., Butler, R.W., Huzurbazar, S. and Wood, A.T.A. (1995), "Saddlepoint approximations for P-values of some tests of covariance matrices," *Journal of Statistical Computation and Simulation* 53, 165-180.

Carter, R.L., Behnke, M., Ariet, M., Dickman, H., and Resnick, M. (1995), "An Index for Early Assessment of Neonatal Survival of Low-Birth-Weight Infants," *American Journal of Perinatology*, 12, 392-395.

Nakashima, E., **Carter, R.L.**, Neriishi, K., Tanaka, S., and Funamoto, S. (1995), "Height Reduction Among Prenatally Exposed Atomic-Bomb Survivors: A Longitudinal Study of Growth," *Health Physics*, 68, 766-772.

Matsuo, T., Nakashima, E., **Carter, R.L.**, Neriishi, K., Mabuchi, K., Akiyama, M., Shi-maoka, K., Kinoshita, K., Tomonaga M., and Ichimaru, M. (1995), "Anti-Human T-Lymphotropic Virus Type-I Antibodies in Atomic-Bomb Survivors," *Journal of Radiation Research*, 36, 8-16.

- Roth, J., Resnick, M. B., Ariet, M., **Carter, R.L.**, Eitzman, D. V., Curran J. S., Cupoli, J. M., Mahan, C. S., and Bucciarelli, R. L. (1995), "Changes in Survival Patterns of Very Low Birth Weight Infants from 1980 to 1993," *Archives of Pediatric and Adolescent Medicine*, 149, 1311-1317.
- Chang, M.N.**, A.L. Gould, and S.M. Snapim (1995) "*P*-values for group sequential testing." *Biometrika* 82, 650-654.
- Chang, M.N.**, (1996). "Optimal designs for group sequential clinical trials." *Communications in Statistics, Theory and Methods*, 25, Number 2, 361-380.
- Cornell, J.A.**, **Randles, R.H.** and **Vining, G.G.**, (1995) "Challenges in teaching short courses by an academic department: The University of Florida Experience," *The American Statistician*, Vol. 49, No. 2, 195-200.
- Carpenter, W.J., **Cornell, J.A.** and Ostmark, E.R., (1995) "Irradiance level and duration to terminate the dormancy of Begonia x Semperflorens Seed," *HortScience*, Vol. 30, No. 2, 252-254.
- Carpenter, W.J., **Cornell, J.A.** and Ostmark, E.R., (1995) "Temperature and seed moisture govern germination and storage of gerbera seed," *HortScience*, Vol. 30, No. 1, 98-101.
- Albregts, E.A., Hochmuth, G.J., Chandler, C.K., **Cornell, J.A.** and Harrison, J. (1995) "Potassium fertigation requirements for drip irrigated strawberry," *Journal of the American Society for Horticultural Sciences*, Vol. 121(1), 164-168.
- Carpenter, W.J., Ostmark, E.R. and **Cornell, J.A.**, (1995) "Evaluation of temperature and moisture content during storage on the germination of flowering annual seed," *HortScience*, Vol. 30, No. 5, 1003-1006.
- Kim, J.M., Marshall, M.R., **Cornell, J.A.**, Preston, J.F. and Wei, C.I. (1995) "Antibacterial activity of carvacrol, citral, and geraniol against Salmonella typhimurium in culture medium and on fish cubes," *Journal of Food Science*, Vol. 60, No. 6, 1364-1368.
- Ghosh, M.**, and Hoekstra, R. M. (1995). "A. P. O. rules in hierarchical Bayes regression models", *Sequential Analysis*, 14, 99-115.
- Mukhopadhyay, S., and **Ghosh, M.** (1995). "On the uniform approximation of Laplace's prior by t-priors", *Journal of Multivariate Analysis*, 54, 284-294.
- Datta, G. S., and **Ghosh, M.** (1995). "Some remarks on noninformative priors", *Journal of the American Statistical Association*, 90, 1357-1363.
- Ghosh, M.** (1995), "New directions for estimation of variance components", *Journal of Statistical Research*, 29, # 2, 1-15.

- Datta, G. S., **Ghosh, M.**, Nangia, N., and Natarajan, K. (1995). "Estimation of median income of four-person families: a Bayesian approach", *Bayesian Analysis in Statistics and Econometrics: Essays in Honor of Arnold Zellner*. Editors D. A. Berry, K. M. Chaloner, and J. K. Geweke. Wiley, New York, pp 129–140.
- Ghosh, M.**, and Baskin, R. A. (1995). "On the robustness of Bayes estimators of the variance ratio in balanced one-way ANOVA models with covariates", *Statistical Theory and Applications: Papers in Honor of Herbert A. David*. Editors H. N. Nagaraja, P. K. Sen, and D. F. Morrison. Springer Verlag, New York, pp 217–231.
- Kinney, John J. and **Kepner, James L.** (1995) "Generalized geometric random variables," *Teaching Statistics*, Volume 17, Number 1, 7-9.
- Khuri, A. I.** (1995), "A measure to evaluate the closeness of Satterthwaite's approximation," *Biometrical Journal*, 37, 547-563.
- Khuri, A. I.** (1995), "A test to detect inadequacy of of Satterthwaite's approximation in balanced mixed models," *Statistics*, 27, 45-54.
- Bechtel, G. G., Ofir, C., and **Khuri, A. I.** (1995), "Replicated paired comparisons at the individual level," *British Journal of Mathematical and Statistical Psychology*, 48, 115-127.
- Littell, R.C.**, Wilcox, C.J., Van Horn, H.H., and Tomlinson, A.P. "Estimation of and adjustment for residual effects in dairy feeding experiments utilizing changeover designs," *Applied Statistics in Agriculture*, 1995, 112-123, FL Ag. Exp. Sta J. Ser. No. R-03753.
- Littell, R.C.**, Lewis, A.J., and Henry, P.R. "Statistical evaluation of bioavailability," in *Bioavailability of Nutrients for Animals: Amino Acids, Minerals, Vitamins*, C.B. Ammerman et al Eds. Academic Press. 5-33. FL Ag. Exp. Sta. J. Ser. No. R-04363.
- Harris, W.G., Rhue, R.D., Kidder, G., and **Littell, R.C.** "Phosphorus retention as related to morphology and taxonomy of sandy coastal plain soil materials," *Soil Sci. Soc. of America J.* to appear.
- Nigg, H.N., Simpson, S.E., Attaway, J.A., Fraser, S., Burns, E., and **Littell, R.C.** "Age-related response of *Anastrepha suspensa* (Diptera: Tephritidae) to protein hydrolysate and sucrose," *J. Economic Entomology*, 88, 1995, 669-677.
- Caton, D., Wilcox, C.J., **Littell, R.C.**, and Roman, R.M. "Subjective enumeration of episodic events (Spikes) in animal physiology experiments," *J. An. Sci.* 73, 1995, 1164-1166. FL Ag. Exp. Sta. J. Ser. No. R-03900.
- Cao, J., Luo, X.G., Henry, P.R., Ammerman, C.B., **Littell, R.C.**, and Miles, R.D. "Effect of dietary iron concentration, age, and length of iron feeding on feed intake and tissue iron concentration of broiler chicks for use as a bioassay of supplemental iron sources," *Poultry Science*, 75, 1996, 495-504, Fl Ag. Eng. Sta. J. Ser. No. R-03203.

- Stewart, R.B., Neal, C., Padgett, P.D., **Marks, R.G.**, and Hale, W.E., "Evolution of histamine H2-receptor antagonist use in an ambulatory elderly population: A 14-year overview," *Journal of Pharmacoepidemiology and Drug Safety*, in press.
- Stewart, R.B., **Marks, R.G.**, Padgett, P.D., and Hale, W.E., "Effect of chronic corticosteroid therapy on stature of elderly women," *Journal of Pharmacoepidemiology*, in press.
- Williams, W.N., Seagle, M.B., Nackashi, A.J., **Marks, R.G.**, et al, "A Randomized prospective clinical trial to assess velopharyngeal function for speech following palatal surgery," submitted to Controlled Clinical Trials.
- Ogebe, P.O., Ayoade, J.A., McDowell, L.R., Wilkinson, N.S., and **Martin, F.G.** (1995), "Mineral concentrations of forages and soils in Benue State, Nigeria. I. Macrominerals and forage in vitro organic matter digestibility and crude protein concentrations." *Communications in Soil Science and Plant Analysis*, 26:1989-2007.
- Ogebe, P.O., Ayoade, J.A., McDowell, L.R., **Martin, F.G.**, and Wilkinson, N.S., (1995), "Mineral concentrations of forages and soils in Benue State, Nigeria. II. Trace Minerals, Soil pH and Organic Matter." *Communications in Soil Science and Plant Analysis*, 26:2009-2021.
- Mislevy, P., **Martin, F.G.**, Adjei, M.B., and Miller, J.D., (1995), "Agronomic characteristics of US 72-1153 energycane for biomass." *Biomass and Bioenergy*, 9:449-457.
- Cuesta, P.A., McDowell, L.R., Kunkle, W.E., Wilkinson, N.S., and **Martin, F.G.**, (1995), "Effects of high-dose prepartum injections of Se and vitamin E on milk and serum concentrations in ewes." *Small Ruminant Research*, 18:99-103.
- Rojas, L.X., McDowell, L.R., Cousins, R.J., **Martin, F.G.**, Wilkinson, N.S., Johnson, A.B., and Velasquez, J.B., (1995), "Relative bioavailability of two organic and two inorganic zinc sources fed to sheep." *Journal of Animal Science*, 73:1202-1207.
- Kalmbacher, R.S., and **Martin, F.G.**, (1995), "Response of creeping bluestem to varying month of burn and soil water." *International Journal of Wildland Fire*, 5:93-99.
- Keeling, S. D., Garvan, C. W., King, G. J., Wheeler, T. T., **McGorray, S.P.** (1995), "Temporomandibular disorders after early class II treatment with bionators and headgears: results from a randomized controlled trial," *Seminars in Orthodontics*, 1, 149-165.
- Wheeler, T.T., Alberts, M.A.M., Dolan, T.A., **McGorray, S.P.**, (1995), "Dental, visual, auditory and olfactory complications in Paget's disease of bone," *Journal of the American Geriatrics Society*, 43, 1384-1391.
- Pendergast, J. F.**, Gange, S. L., Newton, M. A., Lindstrom, M.,J., Palta, M. and Fisher, M. (1996), "A survey of methods for analyzing clustered binary response data", *International Statistical Review*, 64, 89-118.

- Streever W. J. and **Portier K. M.** (1994) “A computer program to assist with sampling design in the comparison of natural and constructed wetlands”, *Wetlands*, 14(3),199–205.
- I-C. Chen I-C, Chapman F. A., Wei C-I, **Portier K. M.** and O’Keefe, S. F. (1995) “Differentiation of cultural and wild sturgeon *Acipenser oxyrinchus destoi* Based on Fatty Acid Composition”, *Journal of Food Science*, 60(3).
- Sutton D. L. and **Portier, K. M.** (1995) “Growth of dioecious hydrilla in sediments from six Florida lakes”, *Journal of Aquatic Plant Management*, 33, 3–7.
- Nair V. D., Graetz, D. A. and **Portier, K. M.** (1995) “Forms of phosphorus in soil profiles from dairies of South Florida”, *Soil Science Society of America Journal*, 59(5), Sept-Oct. 1244–1249.
- Anderson, D. L., deBoer, H. G. and **Portier, K. M.** (1995) “Identification of nutritional and environmental factors affecting sugarcane production in Barbados”, *Communications in Soil Science Plant Analysis*, 26(17&18), 2887–2901.
- Korndorfer, G. H. Anderson, D. L., **Portier, K. M.** and Hanlon, E. A. (1995) “Phosphorus soil test correlation to sugarcane grown on histosols in the Everglades”, *Soil Science Society of America Journal*, 59, 1655–1661.
- Portier, K. M.** and Anderson, D. L. (1995) “Using tree regression to identify nutritional and environmental factors affecting sugarcane production”, *Proceedings of the Seventh Kansas State University Conference on Applied Statistics in Agriculture*, 182–195.
- Lefebvre, L. W., Ackerman, B. B., **Portier, K.M.** and Pollock, K. H. (1995) “Aerial surveys as a technique for estimating trends in Manatee population size - problems and prospects” in *Population Biology of the Florida Manatee*, T. J. O’Shea, B.B. Ackerman and H. F. Pervical (eds.), *Information and Technology Report 1*, August 1995, National Biological Service, U. S. Department of Interior, Washington, D. C. 63–74.
- Rosalsky, A.**, Stoyanov, J., and **Presnell, B.**, “An Ergodic-Type Theorem à la Feller for nonintegrable strictly stationary continuous time processes.” *Stochastic Analysis and Applications*, 13, 555–572, 1995.
- Raychaudhuri, Aparna and **Rao, P. V.** (1996) “Efficacies of Some Rank Tests for Censored Bivariate Data”, *Journal of Nonparametric Statistics* V.6, 1-12.
- Joshi, V. V., **Rao, P.V.**, Cantor, A.B., Altshuler, G., Shuster, J.J. and Castleberry, R.P. (1996): “Modified Histologic Grading of Neuroblastomas with Replacement of Mitotic Rate by Mitosis Karyorrhexis Index: A Clinicopathologic Study of 223 Cases From the Pediatric Oncology Group”: *Cancer*, April Issue.
- Adler, A. and **Rosalsky, A.** (1995), “An extension of the Hong-Park version of the Chow-Robbins theorem on sums of nonintegrable random variables,” *Journal of the Korean Mathematical Society*, 32, 363-370.

- Nam, E. and **Rosalsky, A.** (1995), "On the almost certain rate of convergence of series of independent random variables," *Journal of the Korean Statistical Society*, 24, 91-109.
- Nam, E. and **Rosalsky, A.** (1995), "On the rate of convergence of series of random variables," *Teoriya Īmovirnostei ta Matematichna Statistika*, 52, 120-131 (in Ukrainian).
- Maris J.M., White P.S., Beltinger C.P., Sulman E.P., Castleberry R.P., **Shuster, J.J.**, Look AT, Brodeur GM. Significance of chromosome 1p loss of heterozygosity in neuroblastoma. *Cancer Res* 1995 Oct 15;55(20):466-49.
- Hutchison, R.E., Berard, C.W., **Shuster, J.J.**, Link M.P., Pick, T.E., Murphy, S.B., "B-cell lineage confers a favorable outcome among children and adolescents with largecell lymphoma: a Pediatric Oncology Group study." *J Clin Oncol* 1995 Aug;13(8):2023-32.
- Strother, D., **Shuster, J.J.**, McWilliams, N., Nitschke, R., Smith, E.I., Joshi, V.J., Kun, L., Hayes, F.A., Castleberry, R. Results of pediatric oncology group protocol 8104 for infants with stages D and DS neuroblastoma. *J Pediatr Hematol Oncol* 1995 Aug;17(3):25-49.
- Mahoney, D.H., Jr., Camitta, B.M., Leventhal, B.G., **Shuster, J.J.**, Civin, C.J., Ganick, D.J., Lauer, S.J., Steuber, C.P., Kamen, B.A. Repetitive low dose oral methotrexate and intravenous mercaptopurine treatment for patients with lower risk Blineage acute lymphoblastic leukemia. A Pediatric Oncology Group pilot study. *Cancer* 1995 May 15;75(10):262-331.
- Reinus, W.R., Gilula, L.A., Donaldson, S.S., **Shuster, J.J.**, Vietti, T. Prognostic features of Ewing's sarcoma on radionuclide bone scan after initial treatment. *Eur J Radiol* 1994 Nov;19(1):16. Uckun, F.M., Sather, H., Reaman, G., **Shuster, J.J.**, Land, V., Trigg, M., Gunther, R., Chelstrom, L., Bleyer, A., Gaynon, P. Leukemic cell growth in SCID mice as a predictor of relapse in high risk Blineage acute lymphoblastic leukemia. *Blood* 1995, 15;85(4):87-38.
- McWilliams, N.B., Hayes, F.A., Green, A.A., Smith, E.I., Nitschke, R., Altshuler, G.A., **Shuster, J.J.**, Castleberry, R.P., Vietti, T.J. Cyclophosphamide/doxorubicin vs. cisplatin/teniposide in the treatment of children older than 12 months of age with disseminated neuroblastoma: a Pediatric Oncology Group Randomized Phase II study. *Med Pediatr Oncol* 1995 Mar;24(3):176-80.
- Graham, M.L., **Shuster, J.J.**, Kamen, B.A., Land, V.J., Borowitz, M.J., Camitta, B., Cheo, D.L., Harrison, M.P., Leventhal, B.G., Pinkel, D.P., Pullen, D.J., Steuber, P., and Whitehead, V.M. Changes in red blood cell methotrexate pharmacology and their impact on outcome when cytarabine is infused with methotrexate in the treatment of acute lymphocytic leukemia in children: a pediatric oncology group study. *Clinical Cancer Research*, 1996 Feb; (2):331-337.
- Yang, M.C.K.** and Chao, A., "Comparisons of methods in reliability estimation and stopping rules for software testing," *IEEE Trans. Reliability.*, vol 44, 315-321, 1995.

Yang, M.C.K. “A survey of statistical methods in modern genetics,” *J. Chin. Stat. Assoc.*, vol. 33, 407-428, 1995.

2 Non-Refereed Publications

Agresti, A., Several telegraphic book reviews prepared for *Journal of the American Statistical Association*, 1994-1995

Agresti, A., (1995), Book Review of *Statistical Models for Ordinal Variables*, by C. C. Clogg and E. S. Shihadeh, in *Contemporary Sociology*.

Booth, J.G., (1995), “Bootstrap methods for generalized linear mixed models with applications to small area estimation,” Proceedings of the 10th International Workshop on Statistical Modelling, Lecture Notes in Statistics Series: Springer.

Carter, R.L., Led a team of eight biostatisticians on Dr. Michael Resnick’s Third Party Evaluation project, which was funded by the Florida Prevention, Early Assistance, and Early Childhood Act, Chapter 411, Florida Statutes. Funding is provided through a contract with the State Department of Education (DOE). In fulfillment of this contract we submitted 15 reports to DOE last year, which they have published.

- A Four Year Longitudinal Follow-up Study of Prekindergarten Early Intervention (PKEI): A School District Model
- Statewide Evaluation of Florida’s Prekindergarten Early Intervention Program
- A Risk Assessment Screening Test for Florida’s Healthy Start Program
- A Method for Longitudinal Education Outcome Analysis: Markov Chain Models for Categorical Data
- Matching Birth Records and Educational Outcome: Linkage of Florida’s Birth and Neonatal Intensive Care Records with Florida Department of Education Data
- Information Management and Statistical Analysis Report
- Educational Baselines–Demographic Report
- Educational Baselines–Standardized Test Scores Report
- Educational Baselines–Exceptional Student Education Report
- Educational Baselines–Nonpromoted Report
- Educational Baselines–In-School and Out-of-School Suspensions Report
- Educational Baselines–Chapter 1 Basic Report
- Educational Baselines–Truancy Report

Woods, N. S., Behnke, M., Eyler, F. D., **Conlon, M.**, and Wobie, K. “Cocaine use among pregnant women: socioeconomic, obstetrical, and psychological issues,” In Lewis, M. and Bendersky, M. (eds) *Mothers, Babies, and Cocaine: The Role of Toxins in Development*, Hillside, NJ: Lawrence Erlbaum Associates, Publishers, 1995, pp 305–332.

- Conlon, M.** and Rue, A. R. “The networked writing environment at the IBM writing project,” *University Center for Excellence in Teaching manual*, 1995, 116 pages.
- Carpenter, W.J. and **Cornell, J.A.** (1995), “Temperature and relative humidity recommendations for storing bedding plant seed,” IFAS Technical Bulletin No. 893, Florida Agricultural Experiment Station IFAS, University of Florida, Gainesville FL 32611-0810, 1-43.
- Piepel, G.F. and **Cornell, J.A.** (1995), “A catalogue of mixture experiment examples,” Technical Report No. BN-SA-3298, Battelle Pacific Northwest Laboratories, Richland WA, 1-
- Gomatam, S.V.**, Matching Birth Records and Educational Outcome: Linkage of Florida’s Birth and Neonatal Intensive Care Records with Florida Department of Education Data
- University of Florida Third Party Evaluation (**Gomatam, S.V.**, primary author) (1995), “Linkage of Florida’s Birth, and Neonatal Intensive Care records with Department of Education Data,” Technical Report No. 7, Florida Department of Education, Tallahassee, Florida.
- Huzurbazar, A.V.**, (1995). Review of *Concepts in Stochastic Modelling* by Higgins, J.J., and Keller-McNulty, S. Boston: Duxbury, 1995. *Technometrics*, 37, No. 4, p. 467.
- Littell, R.C.**, “Modelling variation in repeated measures data,” Proc. SAS User’s Group, Int., 1995, 1143-1147.
- Littell, R.C.**, “Analysis of mixed model data,” Proc. SAS User’s Group, Int., 1996, to appear.
- Kalmbacher, R.S., and **Martin, F.G.**, (1995), “Effect of rest period length prior to atrapaspalum seed harvest.” *Soil Crop Science Society of Florida Proceedings*, 54:1-50.
- Pendergast, J. F.**, “Biostatisticians in academia: what we do besides teach”, *ASA Proceedings of the Statistical Education Section, Joint Statistical Meetings*, 1995.
- Korndorfer, G. H., Anderson, D. L., **Portier, K. M.**, and Hanlon, E. A. (1995) “Phosphorus soil test correlation and calibration to sugarcane yield on histosols of the Everglades” *XXV Congresso Brasileiro de Ciencia do Colo*, July, 972–974.
- Portier, K.M.**, Um, Y., Degner, R. L., Mack, S. K., and Adams, C. M. (1995) “Statistical analysis of Florida per capita fish and shellfish consumption data” *Florida Agricultural Market Research Center Industry Report 95-1*, University of Florida, Institute of Food and Agricultural Sciences, December, 173 pages.
- Hallmark, W. B., **Portier, K. M.** and Judice, A. J. (1995) “Relationship between soil nutrient analysis and whole farm sugarcane yields” *American Society of Sugarcane Technologists Journal* 15 65

Presnell, B., Review of *Modern Applied Statistics with S-Plus*, by W. N. Venables and B. D. Ripley. *Journal of the American Statistical Association*, 91, 434-435, 1996.

Randles, R.H. (1995), Book Review of "Applied Nonparametric Statistical Methods," by P. Sprent, *Journal of Applied Statistics*, 22, 189.

3 Technical Reports

Nam, E. and **Rosalsky, A.** (1995). "On The Almost Certain Rate of Convergence of Series of Independent Random Variables," Technical Report Number 477.

Liu, I-M. and **Agresti, A.** (1995). "Mantel-Haenszel-Type Inference for Cumulative Odds Ratios," Technical Report Number 478.

Khuri, A.I., Kim, H.J. and Um, Y. (1995). "Quantile Plots of the Prediction Variance for Response Surface Designs," Technical Report Number 479.

Vining, G.G. and Schaub, D. (1995). "Experimental Designs for Estimating Both Mean and Variance Functions," Technical Report Number 480.

Hobert, J.P. and Casella, G. (1995). "Functional Compatibility, Markov Chains and Gibbs Sampling with Improper Posteriors," Technical Report Number 481.

Ghosh, M. (1995). "Wishartness Via Induction," Technical Report Number 482.

Ghosh, M. (1995). "New Directions For Estimation of Variance," Technical Report Number 483.

Ghosh, M. (1995). "On The Nonexistence of Nonnegative Unbiased Estimators of Variance Components," Technical Report Number 484.

Kim, D. and **Agresti, A.** (1995). "Nearly Exact Tests of Conditional Independence and Marginal Homogeneity for Sparse Contingency Tables," Technical Report Number 485.

Khuri, A.I. and Valeroso, E. (1995). "Multiresponse Surface Models With Block Effects," Technical Report Number 486.

Kim, H.J., Um, Y. and **Khuri, A.I.** (1995). "Quantile Plots of the Average Slope Variance for Response Surface Designs," Technical Report Number 487.

Nam, E. and **Rosalsky, A.** (1995). "On The Convergence Rate of Series of Independent Random Variables," Technical Report Number 488.

Adler, A., **Rosalsky, A.** and Volodin, A.I. (1995). "A Mean Convergence Theorem and Weak Law for Arrays of Random Elements in Martingale Type p Banach Spaces," Technical Report Number 489.

Morrison, S.P., **Littell, R.C.** and **Presnell, B.** (1995). "A Regression Technique for Relating Angular Responses to Linear Covariates," Technical Report Number 490.

- Hobert, J.** (1996). “Standard Errors of Prediction in Generalized Linear Mixed Models,” Technical Report Number 491.
- Ghosh, M.,** Natarajan, K. and Stroud, T.W.F. (1995). “Generalized Linear Models for Small Area Estimation,” Technical Report Number 492.
- Booth, J.** and **Presnell, B.** (1996). “Allocation of Monte Carlo Resources for the Iterated Bootstrap,” Technical Report Number 493.
- Chan, S. and **Ghosh, M.** (1996). “Orthogonal Projections and the Geometry of Estimating Functions,” Technical Report Number 494.
- Yang, M.C.K.,** Chao, A. and Chen, Y.C. (1996). “Software Reliability Estimation by Operational Testing,” Technical Report Number 495.
- Yang, M.C.K.** and Lee, J.S. (1996). “Hough Transform Modified by Line Connectivity and Thickness,” Technical Report Number 496.
- Agresti, A.** (1996). “A Model for Repeated Measurement of a Multivariate Binary,” Technical Report Number 497.
- Chan, S. and **Ghosh, M.** (1996). “A Geometric Optimality of Cox’s Partial Likelihood,” Technical Report Number 498.
- Shuster, J.J.** (1996). “A Prediction Interval Approach to Interim Monitoring of Clinical Trials,” Technical Report Number 499.
- Shuster, J.J.** (1996). “Continuous Monitoring in Randomized Clinical Trials by the Method of O’Brien-Fleming, Jonathan J. Shuster,” Technical Report Number 500.
- Khuri, A.I.** (1996). “Quantile Dispersion Graphs for ANOVA Estimates of Variance Components,” Technical Report Number 501.
- Adler, A., **Rosalsky, A** and Volodin, A. (1996). “Weak Laws with Random Indices For Arrays of Random Elements in Rademacher Type p Banach Spaces,” Technical Report Number 502.
- Cornell, J.A.** and Ramsey, P.J. (1996). “Inter- and Intra-Resin Blending in a Photoresist Coating Mixture Experiment,” Technical Report Number 503.
- Mukerjee, R. and **Ghosh, M.** (1996). “Second Order Probability Matching Priors,” Technical Report Number 504.
- Ghosh, M.** and Kim, D.H. (1996). “Robust Bayesian Analysis With Partially Exchangeable Priors,” Technical Report Number 505.

4 Grants

(b) Funding Received during the Reporting Period.

Carter, R.L., Principal Investigator, “Data Analysis Center for the Study of Tuberculosis among Migrant and Seasonal Farm Workers in Florida”, Putnam County Public Health Unit/Robert Wood Johnson Foundation, 1995-1996, \$22,324.

Carter, R.L., Organizer and Program Chair, “Symposium on Epidemiology and Public Health Research in Florida: Current Work and Anticipated Needs”, Sponsors were the University of Florida Office of Research, Technology and Graduate Education; the Center for Biostatistics and Epidemiology Research; and the Department of Health Policy and Epidemiology, July 20-21, 1995, \$5500.

Carter, R.L., Director of Biostatistics, “Longitudinal Evaluation of Florida’s Programs and Services for High-Risk Preschool Children”, Florida Department of Education, Dr. Michael Resnick, P.I., 1995-1996, \$125,000.

Carter, R.L., Research Biostatistician, “Follow-up Studies of Neonates Treated with Hemopoietic Cytokines”, NIH, Dr. Robert Christensen, P.I., 1996-2001, \$1,876,700.

Ghosh, M. NSF Grant Number SBR-9423996. (P. I.). \$171,896.

Hobert, J. Principle Investigator, “Improved Maximization of Mixed Model Likelihoods Via the Gibbs Sampler,” Division of Sponsored Research, University of Florida, 5/10/96 - 8/9/96, Total Grant \$7,791.

Huzurbazar, A.V. “Stochastic Models for Survival Analysis”, Division of Sponsored Research, \$12,590, May 1, 1995- April 30, 1996.

Huzurbazar, A.V. “Predictive Analysis for Stochastic Networks with Covariates”, Division of Sponsored Research, \$8,272.

Littell, R.C., Co-PI “Longterm Impact of Phosphogypsum on Radon Emissions and on Radioactivity and Heavy Metals in Soil, Ground Water, and Bahiagrass Forage,” Florida Institute of Phosphate Research, 1995-1996, \$146,293, \$12,000 to Statistics.

Littell, R.C., Co-PI “Impact of Phosphogypsum on Radon Emissions and on Radioactivity and Heavy Metals in Soil, Ground Water, and Bahiagrass Forage,” Florida Institute of Phosphate Research, 1995-1996, \$130,000, \$5,000 to Statistics.

Longmate, J.A., Statistician (.10 FTE), “Genetic Dissection of SLE Pathogenesis,” NIH, 4/1/96 – 3/31/01, \$2,810,084

McGorray, S.P. Co-Investigator, “Timing of Treatment For Class II Malocclusion in Children,” National Institute of Dental Research, S. Keeling, P.I., 4/96 – 3/00, Total direct costs \$1,183,524, Total to department during reporting period \$33,000

- McGorray, S.P.** Statistician, “Epidemiology of Dental Caries in Head Start Participants in Alachua County,” Office of Research Technology and Graduate Education, R. Veneze, P.I., 9/95 – 8/96, Total direct cost \$20,651, Total to department during reporting period \$1,200
- Pendergast, J.,** “Multi-site Evaluation of the School Enrollment-Based Health Insurance Concept”, Health Kids Corporation, State of Florida. 1992 – 1996. Total Direct Costs: \$360,000. Grant renewed yearly hereafter.
- Pendergast, J.,** “Managed Care: Implications for Families’ Out-of-Pocket Expenses when Caring for Children with Special Health Care Needs”, State of Florida Dept. of Health and Human Services, 1994 – 1998. Total Direct Costs: \$600,000.
- Pendergast, J.,** “Managed Care: Implications for Families’ Out-of-Pocket Expenses When Caring for Children with Special Health Care Needs”, State of Florida Dept. of Health and Human Services, Assistant Secretary for Planning and Evaluation, Jan 14, 1996 – June 30, 1996.
- Pendergast, J.,** Biostatistician, “Evaluation of School Enrollment-Based Health Insurance Sites – October 1995 through September, 1996. State of Florida Healthy Kids Corp. E. Shenkman, P.I., Total Direct Costs: \$88,502, Total to the Department: \$23,927.
- Pendergast, J.,** Co-investigator, “Nursing Model for Urinary Continence for Older, Rural Women”, National Institute of Nursing Research, Aug. 1, 1995 – July 31, 1996. Total Direct Costs: \$325,301. Total to the Department: \$5,624.
- Pendergast, J.,** Co-Director, Data Services Section, One year renewal of “Florida Neuropsychiatric Research” RISP grant, D. Lewis, P.I., April 1, 1996 – March 31, 1997. Total Direct Costs: \$76,677, Total to the Department: \$12,204.
- Pendergast, J.,** Statistical Consultant, “HIV Neuropsychiatric & Psycho-Immune Relationships”, National Institutes of Health, D. Evans, P.I., July 1, 1995 – June 30, 1996 (one-year renewal budget), Total Direct Costs \$134,110, Total to the Department: \$4,054. (NOTE: Jeff Longmate was the Co-Investigator from Biostatistics on this. Pendergast is now working on it and being paid from it.)
- Portier, K.M.,** Principal Investigator, “Linking Instruction, Hypermedia and Practice in Natural Resource Sampling”, U.S. Department of Agriculture, CSREES/SERD/HEP, Total Direct and Indirect Costs \$50,000, Total to Department \$17,524.
- Portier, K.M.,** Co-Investigator, “Statistical Analysis of Florida Per Capita Fish and Shellfish Consumption”, Fl Department of Environmental Protection, Total to Department \$6,278.
- Portier, K.M.,** Co-Investigator, “Predicting and Managing *Vibrio Vulnificus* Risks in the Gulf of Mexico”, Environmental Protection Agency, Total to Department \$12,497

Shuster, J.J., Non-competing renewal of Pediatric Oncology Group as a Clinical Cancer Outreach Program research base. Awarded \$207,000 Direct and \$30,000 Indirect. (6/1/95 to 5/31/96.)

Vining, G.G., Investigator, "Partnership in Health Management," Astra Merck, 1996-1998, Total Direct Costs \$226,037.21, During Reporting Period \$12,526.75.

Winner, L., Co-Investigator, "A Study of Juvenile Case Processing in Florida: Issues of Timeliness and Consistency Among Jurisdictions", State of Florida Juvenile Justice Advisory Board, P.I. Donna Bishop, 1995, Total Direct Costs, \$25,594, During Reporting Period \$7560 to Department.

Yang, M., P. I., "An extensible environment for ascertaining highly reliable software," Software Engineering Research Center, Jan. 1996-Dec. 1996. Total grant amount \$18,950.

Yang, M., Co-investigator, "Optimized stress states in ceramic-based restorations," Department of Health and Human Service, Aug. 1995-July 1996, (5% effort), Total grant amount \$117,700 Grant No. DE06672-13. (P.I., K.J. Anusavice)

Yang, M., Co-investigator, Biodental Center Grant, NIH, Aug. 1995-July 1996, Total grant amount \$410,406. (10% effort). (P.I. K. Anusavice).

Yang, M., Co-investigator, "Automated periodontal probing methods and examiner training, PDRC grant with Proctal & Gamble, July 1995-Aug. 1996, (10% effort), Total grant amount \$410,406 (P.I. I. Magnusson).

(c) Funding Still in Progress for Previous Year(s).

Agresti, A., PI of "Statistical inference for sparse categorical data," NIH, Total direct costs \$200,000, of which about \$52,000 for current year. This is the second year of a grant funded for the period 1994-1998.

Booth, J.G., Principle Investigator, "Bootstrap Methods for Sample Surveys," National Science Foundation, 1993-1995, Total Grant \$34,658. One year, no cost extension.

Carter, R.L., Director of Biostatistics, "Florida's Regional Perinatal Intensive Care Centers Data System", Children's Medical Services of the State of Florida, Dr. Michael Resnick, P.I., 1994-1995, \$249,000, Approximately \$40,000 to the Department during the current reporting period.

Carter, R.L., Director of Biostatistics, "Longitudinal Evaluation of Florida's Programs and Services for High-Risk Preschool Children", Florida Department of Education, Dr. Michael Resnick, P.I., 1993-1994, \$125,000, Approximately \$80,000 to the Department during the current reporting period.

- Carter, R.L.**, Director of Biostatistics, “Developmental Evaluation/Intervention Quality Assurance and Accountability Program”, Children’s Medical Services of the State of Florida, Dr. Michael Resnick P.I., 1994-1995, \$209,000, Approximately \$30,000 to the Department during the current reporting period.
- Carter, R.L.**, Director of Biostatistics, “An Identification and Tracking System for Florida’s At-Risk Preschool Children”, U.S. Department of Education, Dr. Michael Resnick, P.I., \$100,000/year, Approximately \$25,000 to the Department.
- Conlon, M.**, Principle Investigator. *Evaluation of Women’s Residential Treatment Center*, Center for Drug-Free Living. \$551,561 direct costs, 10/93 – 9/98. As PI, I supervise a full-time evaluator in Orlando, a part-time student assistant in Gainesville and coordinate the work of four other co-investigators.
- Conlon, M.**, Co-investigator. *Fetal Cocaine Metabolism and Immunopharmacological Effect*, NIH/NIDA, Dr. Ian Tebbet, P.I., \$235,915., 10/1/94 – 9/30/95.
- Conlon, M.**, Co-investigator, *Project CARE: Cocaine Abuse in the Rural Environment*, NIH/NIDA, Dr. Fonda Eyler and Dr. Marylou Behnke, Co-P.I.’s, \$1,892,869 direct costs, 2/91 – 1/96.
- Gieser, P.**, Pediatric Oncology Group, NCI, 1.4 million/year, 1/1/91 - 12/31/95, PI: Jon Shuster.
- Kepner, J.L.**, Co-investigator, successfully recompleted for Statistical Office, Pediatric Oncology Group (POG), award 1/1/96 to 12/31/00.
- Longmate, J.A.**, Principle Investigator, “Development of a Construction Injury Prediction Model,” Subcontract from University of Washington (funded from NIOSH), 1994–1995, Total subcontract: \$16,981 (all to Statistics Dept.); During Reporting Period \$8,000 (approx).
- Longmate, J.A.**, Statistician, “In Vivo/in Vitro Wear Performance of Posterior Composites,” NIH–NIDR, 1991–1996, Total grant amount: \$1,153,221, To department during reporting period: \$19,929.
- Longmate, J.A.**, Statistician, “Preconceptional Intervention for Women at Risk for Low Birthweight Infants,” Health Care Financing Administration, 1992–1997, Total grant amount: \$706,000, To department during reporting period: \$13,400.
- Marks, R.**, “A Clinical Investigation of a Healthy Gum Dentifrice”, Chesebrough-Ponds, \$233,000, 11/94-10/95, PI Arthur Hefti, Co-PI Ron Marks
- Marks, R.**, “DNA Probes for the Detection of Periodontal Pathogens”, NIDR, \$500,000, 7/93-6/95, PI William Peros.

Pendergast, J., Statistical Consultant, Institute for Child Health Policy. As noted above in 23(b), the support from the various grants at the Institute of Child Health Policy to the Div. of Biostatistics has increased, but some of it is from those funded in previous years.

Pendergast, J., Principal Investigator, “An Investigation in Small Sample Properties of Estimators for Marginal Models”, National Science Foundation, Visiting Professorships for Women Award, August 15, 1994–August 14, 1995. \$57,165 direct costs and \$77,225 total costs funded by NSF. Matching funds from the U. of Florida: \$23,159 in direct costs and \$28,252 in total costs. Matching funds from the Univ. of Iowa: \$18,984 in direct costs and \$28,484 in total costs. Combined, supports 100% of Pendergast’s time, a .25 FTE research assistant for two semesters, and provides \$10,000 in computer hardware support.

Pendergast, J., Statistical Consultant, “Florida Neuropsychiatric Research” RISP grant, National Institutes of Health, D. Evans, P.I., April 1, 1995 – March 31, 1996. Total Direct Costs: \$85,131, Total to the Department: \$25,327.

Pendergast, J., Statistical Consultant, “HIV Neuropsychiatric & Psycho-Immune Relationships”, National Institutes of Health, D. Evans, P.I., July 1, 1995 – June 30, 1996 (one-year renewal budget), Total Direct Costs \$134,110, Total to the Department: \$4,054.

Portier, K.M., Principal Investigator, “Linking Instruction, Hypermedia and Practice in Natural Resource Sampling”, U.S. Department of Agriculture, CSREES/SERD/HEP, Total Direct and Indirect Costs \$50,000, Total to Department \$16,037.

Portier, K.M., Co-Investigator, “Predicting and Managing *Vibrio Vulnificus* Risks in the Gulf of Mexico”, Environmental Protection Agency, Total to Department \$12,497

Scheaffer, R.L., A Statistical Laboratory for Active Learning, NSF, \$14,940 plus matching funds, 5/1/95 - 4/30/97, R. L. Scheaffer, PI

Shuster, J.J., Successfully re-competed for Statistical Office, Pediatric Oncology Group (POG), award 1/1/96 to 12/31/00. First year budget \$1,279,000 (Direct) and \$265,000 Indirect. Five year total is still pending but will be at least \$6,500,000 Direct and \$1,300,000 Indirect.

Shuster, J.J., Non-competing renewal of Pediatric Oncology Group as a Clinical Cancer Outreach Program research base. Awarded \$207,000 Direct and \$30,000 Indirect. (6/1/95 to 5/31/96.)

Shuster, J.J., We have small awards totaling about \$55,000 Direct and \$11,000 indirect which are ongoing.

Vining, G., Principal Investigator, “Continuous Quality Improvement at North Florida Evaluation and Treatment Center,” Department of Health and Rehabilitative Services,

1993-1995, Total Grant: \$12,843.75, During the Reporting Period: \$3,543.75 to the department.

Wackerly, D.D., Principal Investigator, “Constructing Knowledge of Statistical Concepts Through Modern Technology,” May 1994 – May 1997. Extended through May, 1997, \$99,992.

5 Invited Papers, Seminars and Short Courses

Agresti, A., “Logit Models and Related Quasi-symmetric Loglinear Models for Comparing Responses to Similar Items in a Survey,” presented to Social Statistics section of Royal Statistical Society, London, England, October 1995, and also presented fall 1996 at University of Kent, Cambridge University, University of Southampton, St. Andrews University, London School of Economics, and University of Bath, and presented June 1995 at National Central University, Taiwan.

Agresti, A., “A Survey of Models for Ordinal Categorical Data,” presented at National Central University, Taiwan, June, 1995.

Agresti, A., “Twentieth-Century Tour of Categorical Data Analysis,” presented at Michigan Tech. Univ., Houghton, MI, May 1995, and at National Cheng-Kung University, Tainan, Taiwan, June, 1995.

Agresti, A., “Categorical data analysis,” short course, presented fall 1995 for Univ. of Firenze (Italy), Univ. of Southampton, and London School of Economics. Presented also for Third International Applied Statistics in Industry Conference, Dallas, TX, June 3-4, 1995, and for Statistics Dept. short courses, March 4-6, 1996.

Bohn, L. “A Review of Nonparametric Ranked-Set Sampling Methodology”, Invited paper at IMS Central Regional Meeting, Iowa City, Iowa, May 15 – 17, 1995.

Booth, J.G., “Bootstrap methods for generalized linear mixed models,” University of Georgia, April 27, 1995.

Booth, J.G., Short course on “Generalized Linear Models”, Orlando, March 6-8, 1996.

Carter, R.L., “Markov Chain Analysis of Longitudinal Categorical data”, at the University of British Columbia, August 10, 1995.

Carter, R.L., Short Course on “Multivariate Analysis”, at the Sheraton Plaza Hotel, Orlando Florida, March 4-6, 1996.

Chang, M.N., “Reduction in burden of illness: a new efficacy measure for prevention trials.” Statistics Department, University of Florida, April 1995.

Conlon, M., “Statistical and Methodological Issues in the Longitudinal Study of Maternal Substance Abuse and Perinatal/Developmental Outcomes.” *Epidemiology and Public Health Research in Florida*, Gainesville, FL, 1995.

- Conlon, M.**, “Semi-numerical Statistical Computing.” Invited seminar presented at the Department of Biostatistics, University of North Carolina, Chapel Hill, NC, November 15, 1995.
- Cornell, J.A.**, “Experimenting with Mixtures: An Overview and New Developments,” presented at 12th Statistical Methods Conference on Advanced Design of Experiments, SEMATECH, Austin, TX, May 10, 1995.
- Cornell, J.A.**, “Fitting Models to Data: Interactive vs Polynomial? Your Choice,” presented at Central Regional meeting of the Institute of Mathematical Statistics, University of Iowa, Iowa City IA, May 15, 1995.
- Cornell, J.A.**, “Experiments with Mixtures,” at Shipley Company, Marlboro, MA, November 6, 1995.
- Cornell, J.A.**, “Experiments with Mixtures,” 2 1/2-day short course during “A Week of Short Courses,” Sheraton Plaza Hotel, Orlando, FL, March 4-6, 1996.
- Ghosh, M.**, “New directions for estimation of variance components”. Linear Models Workshop in the University of South Alabama, Mobile, Alabama. March 17, 1995.
- Ghosh, M.**, “Linear models for small area estimation”. Linear Models Workshop in the University of South Alabama, Mobile, Alabama. March 17, 1995.
- Ghosh, M.**, “Generalized linear models for small area estimation”. Missouri Chapter of the American Statistical Association. May 2, 1995.
- Ghosh, M.**, Four Lectures in a workshop on the Analysis of Discrete Data held at the National Central University, Chung-Li, Taiwan. June 14-15, 1995.
- Ghosh, M.**, “Estimation of cancer mortality rates: a hierarchical Bayes GLM approach”. Annual meeting of the American Statistical Association. Orlando, Florida, August 14, 1995.
- Ghosh, M.**, “A unified Bayesian analysis of item-response models”. Annual Meeting of the ISBA. Oaxaca, Mexico. September 30, 1995.
- Ghosh, M.**, “A unified Bayesian analysis of item-response models I and II”. Featured address at the Annual meeting of the Brazilian Statistical Society. Ouro Preto, Brazil, December 1, 1995.
- Ghosh, M.**, “Estimation of median income of four-person families: a Bayesian time series approach”. 34th Annual Meeting of Bayesian Research Statisticians. Los Angeles, California. February 16, 1996.
- Gieser, P.**, “Estimating cure rates using the Gompertz model with covariates,” Department of Statistics, University of Florida, Gainesville, FL. July, 1995.

- Harrison, J.M.**, “Concepts of experimental design,” in-service training course, Gainesville, (November 14, 1995).
- Harrison, J.M.**, “IFAS Statistical Consulting Services,” guest lecture, University of Florida, Department of Forest Resources and Conservation, October 24, 1996.
- Harrison, J.M.**, “Introduction to SAS,” in-service training course, Gainesville (June 29, 1995), Citrus Research and Education Center at Lake Alfred (September 8, 1995), and Southwest Florida Research and Education Center at Immokalee (January 12, 1996.)
- Hobert, J.**, “Compatibility of Conditional Densities and Gibbs Sampling,” Cornell University, July 18, 1995.
- Huzurbazar, A.V.**, “Stochastic Network Models for Survival Analysis”, Department of Statistics, University of Georgia, Athens, GA, May, 1995.
- Huzurbazar, A.V.**, “Predictive Analysis for Stochastic Network Models”, Department of Statistical Science, Southern Methodist University, Dallas, TX, November, 1995.
- Huzurbazar, A.V.**, “Predictive Analysis for Stochastic Network Models”, Department of Statistics, Case Western Reserve University, Cleveland, OH, February, 1996.
- Huzurbazar, A.V.**, “Predictive Analysis for Stochastic Network Models”, Department of Mathematics and Statistics, University of New Mexico, Albuquerque, NM, February, 1996.
- Huzurbazar, A.V.**, “Predictive Analysis for Stochastic Network Models”, Department of Statistics, University of Missouri, Columbia, MO, February, 1996.
- Huzurbazar, A.V.**, “Predictive Analysis for Stochastic Network Models”, Department of Statistics, University of Wyoming, Laramie, WY, February, 1996.
- Kepner, J.**, Invited discussant for a session on Nonparametric Statistics at the Central Regional Meeting of the IMS in Iowa City, IA, May 14-17, 1995.
- Khuri, A.I.**, “Quantile Plots of the Prediction Variance for Response Surface Designs”, presented at the Department of Mathematical Sciences, Oakland University, Rochester, Michigan, April 10, 1995.
- Khuri, A.I.**, “Multiresponse Surface Models with Block Effects”, presented at the R. C. Bose Memorial Conference on Statistical Design and Related Combinatorics, held at Colorado State University, Fort Collins, Colorado, June 9, 1995.
- Khuri, A.I.**, “Analysis of Mixed Model Data”, Short Course presented in Orlando, Florida, March 6-8, 1996.
- Khuri, A.I.**, Invited to present a short course on response surface methodology at a conference to be held at the Universidad de Yucatan in Mexico from May 27 to May 31. I have, however, declined the invitation because I am currently very busy.

- Littell, R.C.**, Analysis of Mixed Model Data, Week of Short Courses, Orlando, FL, March 6-8, 1996.
- Littell, R.C.**, Multiple Comparison Procedures - Citrus AREC, Lake Alfred
- Littell, R.C.**, Multiple Comparison Procedures - Everglades, Belle Glade
- Littell, R.C.**, Multiple Comparison Procedures - SW FL AREC, Immokalee
- Littell, R.C.**, Split Plot and Repeated Measures - Gainesville
- Littell, R.C.**, Analysis of Repeated Measures, Citrus AREC, Lake Alfred
- Littell, R.C.**, General Linear Models: Practical Applications, SAS Institute Short Course, Center for Disease Control, Atlanta, GA, March 12-14, 1996.
- Littell, R.C.**, and Wolfinger, R.D., Analysis of Mixed Model Data with the SAS System, American Statistical Association Short course, Orlando, FL, August 12, 1995.
- Littell, R.C.**, Analysis of Mixed Model Data, SAS User's Group, International, Chicago, IL, March 10-13, 1996.
- Marks, R.**, "Publication Issues in Clinical Trials Research", Clinical Trial Symposium, University of Florida, May 8-9, 1995.
- Marks, R.**, "Florida Geriatric Research Program Database Resources", Epidemiology and Public Health Research in Florida: Current Work and Anticipated Needs, University of Florida, July 20-21, 1995.
- Marks, R.G.**, "Careers in Statistics," Messiah College, Nov. 13, 1995.
- Portier, K.M.**, "Basics of Experimental Design", UF-IFAS Statistics sponsored in service training short course, Citrus REC, Lake Alfred, FL, March 1, 1995.
- Portier, K.M.**, "IST-618 Statistical Design for County Extension Faculty: Deriving Maximum Benefit from Demonstration Trials", in service training workshop with Dr. Ed Hanlon, UF-IFAS North Florida REC, Quincy, FL, September 27, 1995.
- Portier, K.M.**, "IST-618 Statistical Design for County Extension Faculty: Deriving Maximum Benefit from Demonstration Trials", workshop with Dr. Ed Hanlon, University of Florida, Gainesville, FL, November 29, 1995.
- Portier, K.M.**, "Statistical Design of AgroEcosystem Research", guest lecture, University of Florida, *AgroEcosystems* course, February 8, 1996.
- Randles, R.**, "The Professional Contributions of Robert V. Hogg", Invited Lecture at the Institute of Mathematical Statistics Regional Meeting, Iowa City, Iowa, May 1995.
- Randles, R.**, "Nonparametric Statistical Methods," Invited Short Course presented at the IFAS Research and Education Center, Bradenton, Florida, December 1995.

- Rosalsky, A.**, “The Strong Law of Large Numbers in Statistical Science and Ergodic Theory,” Department of Mathematics and Statistics, Miami University, Oxford, Ohio, April 13, 1995.
- Rosalsky, A.**, “An Ergodic-Type Theorem à la Feller for Nonintegrable Strictly Stationary Continuous Time Processes,” Department of Statistics, University of Georgia, Athens, Georgia, January 18, 1996.
- Scheaffer, R.L.**, Statistics in the Schools, Applied Statistics in Industry Conference, Dallas, TX, June 1995
- Scheaffer, R.L.**, Activity-Based Statistics, Dartmouth College, June 1995
- Scheaffer, R.L.**, Teaching Survey Sampling, Joint Statistical Meetings, Orlando, FL, August 1995
- Scheaffer, R.L.**, Secondary Quantitative Literacy in Action, Joint Statistical Meetings, Orlando, FL, August 1995
- Scheaffer, R.L.**, The AP Statistics Program, Connecticut Chapter ASA, Wallingford, MA, September 1995
- Scheaffer, R.L.**, Statistical Thinking, Choate Rosemary Hall, Wallingford, MA, September 1995
- Scheaffer, R.L.**, From Algebra to AP: Statistics as a Vital Component of the Math Curriculum, NCTM Regional Conference, Springfield, MO, October 1995
- Shuster, J.J.**, Prediction Methods in Interim Monitoring of Clinical Trials Seminar at Dept. of Mathematics and Statistics, University of Memphis, 1/16/96
- Shuster, J.J.**, Clinical Interpretation of Statistical Results Seminar at St Jude Children’s Research Center, Memphis, TN., 1/17/96.
- Vining, G.**, “Experimental Designs for Estimating Both Mean and Variance Functions,” SEMATECH 12th Statistical Methods Symposium, Austin, Texas, May, 1995. Also presented to the Shell Technical Research Center, Louvain au-Nouvelle, Belgium, December, 1995.

6 Contributed Papers

- Agresti, A.**, “Order-Restricted Tests for Stratified Comparisons of Binomial Proportions,” presented at ASA meeting, Orlando, FL, August 15, 1995.
- Booth, J.G.**, “Bootstrap methods for generalized linear mixed models,” American Statistical Association, National Meetings in Orlando, August 1995.

- Chang, M.N.**, “Isotonic window estimators of survival functions based on observations that are right or left censored”. Joint statistics meetings, Orlando, August, 1995.
- Conlon, M.**, “The IBM Writing Project at the University of Florida,” *11th Computers and Writing Conference*, El Paso, TX, May 19, 1995.
- Clarke, L. L., Wobie, K., **Conlon, M.**, Eyley, F. D., Behnke, M., Tchividjian, L. “Changes in Women’s Self-Esteem, Depression and Locus of Control during Residential Treatment,” *Women, Mental Health and Substance Abuse: Shaping an Agenda for Florida*, Clearwater Beach, Florida, 1995
- Gomatam, S.V.**, “On Nonparametric Regression for Current Status Data,” Contributed paper, Joint Statistical Meetings, Orlando, August 1995.
- Harrison, J.M.**, “Evaluation of Manatee Feeding Preferences from Partial Ranks,” Annual Meeting of the Florida Chapter, American Statistical Association, Jacksonville, FL, February 16, 1996.
- Hobert, J.**, “The Effect of Improper Priors on Gibbs Sampling in Hierarchical Linear Mixed Models,” American Statistical Association Annual Meeting, Orlando, FL, August, 1995.
- Huzurbazar, A.V.**, “Predictive Analysis on a Stochastic Network Model for AIDS”, Institute of Mathematical Statistics/Statistical Society of Canada Annual Meetings, Montreal, Quebec, July, 1995.
- Huzurbazar, A.V.**, “Stochastic Network Models for Survival Analysis”, Institute of Mathematical Statistics New Researchers’ Meeting, Kingston, Ontario, July, 1995.
- Jackson, K.E., **Longmate, J.A.** and Wakeland, E. K., Genetic Analysis of Peripheral $J\beta$ Usage. Presented at FASEB 1995.
- Longmate, J.A.** , Estimating Equations and Informative Denominators. Presented at ENAR 1996 Spring Meeting.
- McGorray, S.P.**, “Biostatistics in Academia: What We Do Besides Teach,” with J. Pendergast, American Statistical Association Annual Meeting, Orlando, FL, August, 1995.
- Moorhead, J.E.**, “Passive Smoking and Respiratory Morbidity in CLP Children”, Florida Cleft Palate-Craniofacial Association, Orlando, FL, January, 1996.
- Moorhead, J.E.**, “Otologic and Audiologic Conditions of Cleft and Noncleft Children in Russia, Ukraine, Sweden, and USA”, Florida Cleft Palate-Craniofacial Association, Orlando, FL, January, 1996.
- Moorhead, J.E.**, “Effect of Nasal Decongestion on Nasalance Scores” Florida Cleft Palate-Craniofacial Association, Orlando, FL, January, 1996.

- Moorhead, J.E.**, “Nasalance as Measured in Isolation and in Connected Speech”, Florida Cleft Palate-Craniofacial Association, Orlando, FL, January, 1996.
- “Comparison of Nasalance Scores and Perceptual Judgments of Nasality with Young Children”, Florida Cleft Palate-Craniofacial Association, Orlando, FL, January, 1996.
- Moorhead, J.E.**, “Need Assessment Survey Of An Underserved Population, Broward County, Florida”, International/American Association of Dental Research, San Francisco, CA, March, 1996.
- Moorhead, J.E.**, “Sensitivity of CIELAB Parameters on Color Matching of Porcelain Discs”, IADR/AADR, San Francisco, March, 1996.
- Moorhead, J.E.**, “An Experimental Opening in the Hard Palate and Nasality”. IADR/AADR, San Francisco, March, 1996.
- Pendergast, J.F.**, “Simulation Results on the Small Sample Properties of GEE Estimators”, Joint Statistical Meetings, Orlando, FL, August 13, 1995.
- Tomlinson, B.U., Dougherty, M.C., Dwyer, J.W. **Pendergast, J.F.**, Vogel, W.B., and Boyington, A.R. “Rural Women’s Health Project”, Conference *Women’s Health and Research: Applying the National Agenda*, Gainesville, FL, Feb. 16, 1996
- Portier, K.M.**, “Using Tree Regression to Identify Nutritional and Environmental Factors Affecting Sugarcane Production”, contributed poster paper, Seventh Annual Kansas State University Conference on Applied Statistics in Agriculture, Manhattan, KS, April 23-25, 1995.
- Portier, K.M.**, “A New Approach to Natural Resource Sampling”, invited paper, Annual Meeting of the Florida Chapter, American Statistical Association, Jacksonville, FL, February 16–17, 1996.
- Presnell, B.**, “Optimal Allocation of Monte Carlo Resources for the for the Iterated Bootstrap,” American Statistical Association Annual Meeting, Orlando, FL, August, 1996.
- Rosalsky, A.**, “Some Weak Laws of Large Numbers for Arrays of Banach Space Valued Random Elements,” XVII Seminar on Stability Problems of Stochastic Models, Kazan, Tatarstan, Russia, June 19-26, 1995.
- Wackerly, D.D.**, Poster Session, “Constructing Knowledge of Statistical Concepts Through Modern Technology,” 1995 Joint Statistical Meetings, Orlando, FL, August 13-17, 1995.
- Winner, L.**, “Long–Term Recidivism: A Comparison of Transferred and Non–Transferred Youths”, American Society of Criminology Annual Meeting, Boston, MA, November, 1995 (with Bishop, Frazier, and Lanza–Kaduce).

7 Seminars At The University of Florida

- Bohn, L.**, “Balanced and Unbalanced Ranked-Set Sampling,” November 30, 1995, Department of Statistics.
- Booth, J.G.**, “Tail probability approximations for statistics with non-normal limit distributions,” Department of Statistics, University of Florida, October 1995.
- Carter, R.L.**, “Assessment of Direct and Indirect Effects of Socio-Demographic and Medical Risk Factors on Infant Death”, October 31, 1995, Division of Biostatistics.
- Conlon, M.**, “Bias in Research Methods: Design, Analysis and Reporting,” invited presentation to students of VME 6767, Ethics in Research.
- Ghosh, M.**, “Probability matching priors for linear calibration”. October 19, 1995.
- Gomatam, S.V.**, “On Nonparametric Regression for Current Status Data,” Department of Statistics seminar, University of Florida, Gainesville, November 1994.
- Gomatam, S.V.**, “Effect of Sociodemographic and Perinatal Medical Risk Factors on Poor Educational Outcomes”, Division of Biostatistics, University of Florida, Gainesville, June 1996.
- Harrison, J.M.**, “Developing Guidelines for Statistical Consulting,” University of Florida, Department of Statistics, November 16, 1996.
- Kepner, J.L.**, Presented a seminar, “On Two-Stage Testing Procedures for Clinical Trials,” to UF’s Division of Biostatistics, Researchers in the Health Sciences Center, Department of Statistic faculty, and interested students from these areas on February 27, 1996.
- Khuri, A.I.**, Presented the paper “Quantile Plots of the Prediction Variance for Response Surface Designs”, for the Department of Statistics, February 1, 1996.
- Littell, R.C.**, Presented seminar at University of Florida Department of Statistics on Estimation of Means in Unbalanced Mixed Model Data.
- Marks, R.G.**, “Design of Nutrition Research,” Department of Food Nutrition, Oct. 10, 1995.
- McGorray, S.P.** “Disease Susceptibility Genes and the Affected Sibling Pair Method: Likelihood-Based Inference for Genetic Relative Risk”, March 7, 1996, Department of Statistics.
- Moorhead, J.E.**, “Compliance”, Clinical Trial’s Symposium, May, 1995, Division of Biostatistics.
- Moorhead, J.E.**, “Guidelines for the Design, Implementation, and Completion of a Dental Research Residency Project”, July 20-21, 1995 Epidemiology and Public Health Symposium, Division of Biostatistics.

- Moorhead, J.E.**, “Caries Efficacy of High Potency Fluoride Dentifrices”, October 17, 1995, Health Affairs for Academic Support and Research.
- Moorhead, J.E.**, “Needs Assessment Survey of An Underserved Population, Broward County, Florida”, October 19, 1995, Health Affairs for Academic Support and Research.
- Pendergast, J.**, “Child SSI Beneficiaries: Obtaining State-Specific Estimates of the Number Eligible”, Biostatistics and Epidemiology Seminar Series, U. of Florida, November 28, 1995.
- Portier, K.M.**, “The Graduate Statistics Methods Sequence”, seminar speaker, University of Florida, Department of Statistics, July, 27, 1995.
- Portier, K.M.**, “Visualization in AgroEcosystem Management Research”, seminar speaker, University of Florida–IBM SUR Research Visualization Seminar Series, October 31, 1995.
- Portier, K.M.**, “Tree Regression”, seminar speaker, University of Florida, Department of Statistics, February 15, 1996.
- Portier, K.M.**, “Testing the power of your research design before you waste time”, seminar speaker, University of Florida, Soil and Water Sciences Department, March 22, 1996.
- Presnell, B.**, “Optimal Allocation of Monte Carlo Resources for the Iterated Bootstrap,” October 5, 1995, Department of Statistics.
- Randles, R.H.**, ”Statistics in Graduate Study”, July 1995, Summer Research Apprenticeship Program, Graduate Minority Programs Office.
- Rosalsky, A.**, “An Ergodic-Type Theorem à la Feller for Nonintegrable Strictly Stationary Continuous Time Processes,” UF Department of Mathematics, April 10, 1995.
- Vining, G.**, “Experimental Designs for Estimating Both Mean and Variance Functions,” September 14, 1995, Department of Statistics.

8 International Activity

- Agresti, A.**, Sabbatical, London School of Economics, Fall, 1995. Seminars presented in England, Scotland, Taiwan and Italy.
- Booth, J.G.**, Invited talk: “Bootstrap methods for generalized linear mixed models,” 10th International Workshop on Statistical Modelling, Innsbruck, Austria, 10-14 July, 1995.
- Carter, R.L.**, Still trying to finish off some papers from work at the Radiation Effects Research Foundation in Hiroshima, Japan.
- Ghosh, M.**, ”Many Nuisance Parameters, Inconsistent MLE’s and Hierarchical Bayes Solutions”. Department of Mathematics. National Taiwan University. Tainan, Taiwan. June 16, 1995.

Ghosh, M., “ An introduction to Bayesian inference in finite population sampling ”. Federal University of Brazil. Rio de Janeiro. December 4, 1995.

Ghosh, M., “ Generalized linear models for small area estimation ”. Federal University of Brazil. Rio de Janeiro. December 4, 1995.

Hazurbazar, A.V. Participated in a workshop on computationally intensive statistical methods titled “New Approximations in Statistics”, Ascona, Switzerland, March 20-24, 1995.

Scheaffer, R.L., Vice President of the International Association for Statistical Education; duties include writing the material for two newsletters (one in Teaching Statistics and the other in the ISI Newsletter) that each appear three times per year and serving on the Program Committee for ICOTS 5 to be held in 1998.

Yang, M., On sabbatical at the Institute of Statistics, National Tsing Hua University, Taiwan, from January 1995 to July 1995. Was invited to give talks in more than 10 universities in Taiwan and Hong Kong.

9 Editorial Activities

Agresti, A.

Review Editor, *Journal of the American Statistical Association*

Book Review Editor, *The American Statistician*

Associate Editor, *Statistics and Probability Letters*

Booth, J.G.

Associate Editor, *Computational Statistics*

Cornell, J.A.

Member of Editorial Review Board of Journal of Quality Technology.

Ghosh, M.

Member, Journal Committee of *Sankhya A & B*.

Editor, *Sequential Analysis*, January 1, 1996-to date.

Member, Editorial Board of *Statistics and Decisions*.

Member, Editorial Board of *Statistics*.

Member, Editorial Board of *Journal of Statistical Research*.

Kepner, J.L.

Associate Editor, Theory and Methods Section of the *Journal of the American Statistical Association*.

Khuri, A.I.

Associate Editor, *Journal of Statistical Planning and Inference*.

Column Editor, International Corner, *Amstat News*.

Regular Reviewer, *Mathematical Reviews*.

Littell, R.

Associate Editor, *ASA Journal of Agricultural, Biological and Environmental Statistics*.

Rosalsky, A.

Associate Editor, *Journal of Applied Mathematics and Stochastic Analysis*

Editorial Board Member, *International Journal of Mathematics and Mathematical Sciences*

Staff Reviewer, *Mathematical Reviews*

Shuster, J.J.

Associate Editor, *Journal of the American Statistical Association*; Appointed to Editorial Board, *Sequential Analysis*.

Vining, G.,

Member, Editorial Review Board, *Journal of Quality Technology*

Yang, M.

Associate Editor, *Statistica Sinica*

10 Professional Committees and Activities

Agresti, A.

Nominating committee, Institute of Mathematical Statistics

Bohn, L.L.

Secretary/Treasurer, Florida Chapter of ASA

Carter, R.

Member, Organizing Committee for the Second Annual Florida Epidemiology Conference.

Member, State Health Office's Maternal and Child Health Think Tank.

Conlon, M.

Invited Columnist for *Statistical Computing and Graphics Newsletter*. I write a quarterly column on "Departmental Computing" for this newsletter.

Member, ASA Committee on Electronic Services. I am currently working to deploy the ASA web site which can be seen at

<http://www.amstat.org>

Cornell, J.A.

External reviewer for the Hong Kong Research Council.

Ghosh, M.

Member, IMS Committee on Fellows.

Member, ASA Census Advisory Committee.

Organizer, a Scientific Session on Applications of Generalized Linear Models at the 1995 ASA Annual Meeting at Orlando.

Huzurbazar, A.V.

Member, Institute of Mathematical Statistics Committee of New Researchers, 1996-97.

Khuri, A.I.

Chair, ASA Committee on International Relations in Statistics.

Littell, R.C.

Editorial Advisory Committee, Journal of Agricultural, Biological, and Environmental Statistics.

Longmate, J.A.

Member, Peer Review Committee, American Heart Association Florida Affiliate.

Marks, R.

NIDR Special Emphasis Panel - Served as a special reviewer for a competition for funding a clinical trial in dental amalgams.

Pendergast, J.

Elected to the Board of Directors of the American Statistical Association (ASA) (1996-1998), representing the ASA Council of Chapters

Member of the Governing Board of the ASA Council of Chapters (1996-1998)

Was one of two candidates for the position of Treasurer of ENAR (Eastern North American Region of the International Biometric Society). (Was not elected.)

Appointed to the regional governing committee (RECOM) of ENAR (1995-1998)

Member, ENAR Electronic Communications Committee

Representative of the Florida Chapter of the ASA to the Council of Chapters

Randles, R.

Candidate for President of the American Statistical Association, Spring 1996.

Vice President of the American Statistical Association, 1993-1995.

Member of the Board of Directors of the American Statistical Association, 1993-1995.

Chair of the Budget Committee of the American Statistical Association, 1995.

Committee on Committees, American Statistical Association, 1993-1995.

President Elect of the Southern Regional Council on Statistics, 1996-1997.

COPSS Visiting Lecturer Program, 1991-Present.

UF Representative to the Southern Regional Council on Statistics.

Scheaffer, R.L.

ETS/College Board AP Statistics Program; Chief Faculty Consultant - duties include serving with the Test Development Committee, writing parts of the Course Description and Teacher's Guide, setting scoring standards for the exam, and arranging for the reading of the open-ended questions for the first exam to take place in the spring of 1997.

IASE, Vice President

National Center for Research in Mathematical Sciences Education, University of Wisconsin; Member of Statistics Working group

University of Western Michigan, CORE+ Project on Mathematics Education; Advisor Central Michigan University, Annenberg/CPB Higher Education Project; Advisor

Shuster, J.J.

Drafted guidelines for Electronic Transfer of New Agent patient data on behalf of the Cooperative Group Statisticians, National Cancer Institute.

Vining, G.,

Member, Brumbaugh Award Committee, American Society for Quality Control.

Session Organizer and Chair, "Recent Advances in Design of Experiments," 12th (1995) Quality and Productivity Research Conference, Scottsdale, Arizona.

11 Scientific Review Activities

Agresti, A. Member, Biostatistics special study section, NIH

Conlon, M., Served on 3 NCI Special review panels during the review period.

Khuri, A.I., Reviewed two proposals for the National Science Foundation.

Littell, R.C., Reviewed two proposals for the National Science Foundation.

Shuster, J. Contributed to the drafting of the National Cancer Institute Guidelines for Data Monitoring Boards.

12 College And University Service

Agresti, A.

Member, University Senate

Carter, R.

Health Center IRB Committee. I served as the Division's alternate member of the Health Center's Institutional Review Board for the Protection of Human Subjects.

Conlon, M.

Director of Information Resources and Technological Programs, Office of the Dean, College of Liberal Arts and Sciences.

This is a half-time appointment with major responsibility for coordinating and facilitating the activities of the college's departments and units in the area of information resources. Major activities include, but are not limited to:

- Physical networking. During the reporting period Grinter Hall was added to the campus network. Troubleshooting in all buildings. Major activity in Rolfs to prepare space for IBM Writing Project. Major activity in Turlington to repair previous problems. Design activity related to New Advising Building.

- Department networking. Work with all departments to improve access to the net. Advise on purchasing hardware, software, networking equipment. Advise on planning. Train department contacts on deployment of networked computers and services.
- College information resources. Supervise and construct the college's information resources including an Apple Workgroup server for AppleTalk support, a Novell Netware server for IPX support and a Sun Sparc 10 Model 30 for TCP/IP support. We operate a mail system for over 700 faculty and staff of the college, a Usenet server, a gopher server, and a Web server. The Web server houses department information, advising information and college level information.
- Supervisor for three full-time computer professionals.
- Project Coordinator for the IBM Writing Project. Supervise a staff of 2 full-time system administrators, 1 graduate assistant and three undergraduate assistants.
- Guest columnist for CLAS Notes. I write a monthly column on information resource issues for the college newsletter.
- IRM (Information Resource Management) Officer for the college. Prepare IRM reports of activities and develop and file the college's IRM Strategic Plan.

Chair, CITS Standing Committee on Academic Computing.

Founding member of the Campus-Wide Information System Operations Committee.
Helped design the UF Home Page.

Member, Council of Information Technologies and Services. This Council advises the Provost on information and technology deployment at UF.

Member, Distance Learning Council. This council advises the Provost on the development of distance learning programs at UF.

Member, College Language Learning Committee. This group is designing a new computer-based language laboratory for UF.

Member, HEALTHNET Forum. This group advises the Health Center on technical issues surrounding the development and maintenance of computer networks in and connected to the Health Science Center.

Member, HEALTHNET Technical Advisory Group. Advises HEALTHNET on strategic deployment issues.

Ghosh, M.

Member, College Committee on Promotion and Tenure.

Littell, R.

Statistics Department Administrative Advisory Committee

Statistics Department Graduate Minors Advisor. Rewrote requirements for Ph.D. and MS minors in Statistics.

Marks, R.G.

NIDR Special Emphasis Panel - Served as a special reviewer for a competition for funding a clinical trial in dental amalgams.

Martin, F.

Statistics Department Graduate Program Committee.

Member, Institutional Animal Care and Use Committee.

McGorray, S.

Member of the Health Science Center Institutional Review Board for the Protection of Human Subjects.

Moorhead, J.

Member, Title IX Committee for Intercollegiate Athletics: An Equity Assessment.

Member, Delores A. Auzenne Minority Fellowship for Graduate Study Committee.

Member, Faculty Mentor, Minority Mentor Program.

Pendergast, J.

Member, Janet Bessmer's Ph.D. Dissertation Committee (Clinical Psychology)

Member, Martin Ward's Ph.D. Dissertation Committee (Clinical Psychology)

Member, David Nau's Ph.D. Dissertation Committee (Pharmacy Health Care Administration)

Portier, K.

Member, Networking and Telecommunications Committee of CITS

Chair, UF-IFAS-COA Technology in Instruction Committee

Member, Buck Island AgroEcology Research Project - UF Research Team

Randles, R.H.

Regularly attend meetings in CLAS, IFAS and the Health Center to coordinate the statistics classes and statistical consulting and collaboration that is needed by the different units within the University.

Rosalsky, A.

Research Development Award Committee

Shuster, J.J.

Serve as Director, UF international Center for Childhood Cancer Research; (b) brought in substantial overhead on our grants. We could bring in double the amount if adequate space could be found on campus.

Wackerly, D.D.

Member, CLAS Undergraduate Research Committee

Member, CLAS Associate Dean for Minority Affairs, Advisory Committee

Yang, M.

Member, Nomination Committee, College of Arts and Sciences

13 Teaching Awards

Agresti, A., Received TIP award, 1995-1996 academic year

Booth, J.G., 1995 TIP award winner

Presenell, B., Received TIP award, University of Florida, 1995–96.

Scheaffer, R.L., TIP award winner for 1995

14 Awards and Other Recognitions of Scholarship

Cornell, J.A. Co-recipient of the 1994 ASQC Brumbaugh Award for paper entitled “Mixture Experiment Approaches-Examples, Discussion and Recommendations.”

Khuri, A.I., was ranked 27th among the top 100 most prolific statistics journal authors in the world. This is based on a survey by the National Science Foundation.

Randles, R., Named a Fellow of the Institute of Mathematical Statistics, August 1995.

15 Degrees Awarded

B.S. Statistics and Double Majors

Summer 1995

Jennifer Wagner

Jane Wiggins

David Rubanowice

Oscar Blass

Fall 1995

Laura Eiker
Brian Caffo
Gisela Rodriguez
Lynn Ayotte
Paul Gosnell
Kimberly Rovansek
Soloman Malka

Spring 1996

Stephane Coffey
Sean McCartney
Shannon Scott
Sara Nicole Tipton
Lisa Jamba
Cangela Cooley
Michele Siegel
Evan Smitha
Kristopher Swaye

Master Of Statistics

Fall 1995

Kevin Robinson
Shyan-Feng Shen
Denise Wilson
Lee-Lian Kim

Spring 1996

Joongkyu Choi
Keith Curtis
Yan Li
Daniel Swint
Kathryn Winter

Ph.D.

Fall 1995

Jaewoon Kang – advisor, M.C.K. Yang
Scott Morrison – advisor, R.C. Littell
Yonghwan Um – advisor, R.H. Randles

16 Courses Offered

<u>Course</u>	<u>Terms Offered</u>	<u>Course Title</u>
STA 3023	Summer, Fall, Spring	Introduction to Statistics
STA 3024	Summer, Fall, Spring	Introduction to Statistics 2
STA 3032	Summer, Fall, Spring	Engineer Statistics
STA 3122	Summer, Fall, Spring	Statistics for Soc. Science
STA 4033	Fall, Spring	Math Stat Comptr Appl
STA 4170	Fall	Intro Stat Meth Pharm
STA 4210	Fall, Spring	Regression Analysis
STA 4211	Spring	Design of Experiments
STA 4212	Fall	Multivar/Nonpara Meth
STA 4321	Summer, Fall, Spring	Math Statistics 1
STA 4322	Summer, Fall, Spring	Math Statistics 2
STA 4905	Summer, Fall, Spring	Individual Work
STA 4930	Spring	Multi. Sta. Meth.
STA 5106	Fall, Spring	Computer Prog Stat 1
STA 5325	Summer, Fall, Spring	Math Meth Statistics
STA 6126	Spring, Fall	Stat Meth Soc Res 1
STA 6127	Spring	Stat Meth Soc Res 2
STA 6166	Summer, Fall, Spring	Stat Meth Res 1
STA 6167	Summer, Spring	Stat Math Statistics 2
STA 6176	Spring	Survey of Biostatistics
STA 6177	Fall	Surv. Anal. & Clinical Trials
STA 6200	Fall	Fund Research Design
STA 6201	Spring	Analysis Research Data
STA 6207	Fall	Applied Stat. Methods
STA 6208	Spring	Regression Analysis
STA 6209	Spring	Design/Analysis of Experiments
STA 6246	Fall	Theory Least Squares
STA 6247	Spring	Adv. Topics in Design
STA 6326	Fall	Intro Theoret Stat 1
STA 6327	Spring	Intro Theoret Stat 2
STA 6329	Summer	Applic Matrix Algebra
STA 6466	Fall	Probability Theory 1
STA 6467	Spring	Probability Theory 2
STA 6526	Fall	Nonparametric Stats.
STA 6662	Spring	Stat Methods Indus
STA 6746	Spring	Multivariate Analysis
STA 6857	Fall	Applied Time Series
STA 6900	Summer	Prob in Statistics
STA 6905	Summer, Fall, Spring	Individual Work
STA 6910	Summer, Fall, Spring	Supervised Research

<u>Course</u>	<u>Terms Offered</u>	<u>Course Title</u>
STA 6934	Fall	Generalized Linear Models
STA 6934	Spring	Survival Anal.
STA 6934	Spring	Genetic Data Anal.
STA 6934	Summer	Stat Computing
STA 6937	Summer, Fall, Spring	Seminar Curr Topics
STA 6938	Summer, Fall, Spring	Seminar
STA 6940	Summer, Fall, Spring	Supervised Teaching
STA 6971	Summer, Fall, Spring	Masters Research
STA 7979	Summer, Fall, Spring	Advanced Research
STA 7980	Summer, Fall, Spring	Doctoral Research
MAA 6236	Fall	Math Analysis Stat 1

17 Textbooks Authored By Our Faculty

Statistical Methods for the Social Sciences, A. Agresti (with B. Finlay),(1986), Dellen Publ., 2nd Ed., Macmillan Publ.

Analysis of Ordinal Categorical Data, A. Agresti (1984), Wiley & Sons

Categorical Data Analysis, A. Agresti, (1990), Wiley & Sons

An Introduction to Categorical Data Analysis, Agresti, A., (1996), Wiley.

Dellen Stat: Statistical Software to Accompany James T. McClave and Frank H. Dietrich, II Statistics, 4th Edition, M. Conlon, (1989), Dellen Publishing Co.

Experiments with Mixtures, 2nd Edition, J.A. Cornell, (1990), Wiley & Sons

Exploring Measurements, J.L. Kepner, P. Barbella, R.L. Scheaffer (1995), Dale Seymour Publications.

Teacher's Manual for Exploring Measurements, J.L. Kepner, P. Barbella, R.L. Scheaffer (1995), Dale Seymour Publications.

Response Surfaces, A.I. Khuri and J.A. Cornell, (1987), Marcel Dekker

Advanced Calculus With Applications in Statistics, A.I. Khuri, (1993), Wiley & Sons.

SAS System for Linear Models, 3rd Edition, R.C. Littell, R.J. Freund, and P.C. Spector, (1991), Cary, NC: SAS Institute Inc.

SAS System for Regression, 2nd Edition, R.J. Freund, and R.C. Littell, (1991), Cary, NC: SAS Institute, Inc.

SAS System for Elementary Statistical Analysis, S.D. Scholtzhaur, S.D. and R.C. Littell (1987), Cary, NC: SAS Institute, Inc.

SAS System for Mixed Models, 1996, SAS Institute Inc, Cary N.C. Littell, R.C., Milliken, G.A., Stroup, W.W., and Wolfinger, R.D.

Designing a Research Project: The Basics of Biomedical Research Methodology, R. Marks, (1982), Lifetime Learning Publ.

Analyzing Research Data: The Basics of Biomedical Research Methodology, R. Marks, (1982), Lifetime Learning Publ.

Introduction to Linear Models and the Design and Analysis of Experiments, W.Mendenhall, (1968), Duxbury Press.

Statistics for Psychology, 2nd Edition, W. Mendenhall (with J. McClave), (1977), Duxbury Press.

A Second Course in Business Statistics: Regression Analysis, 4th Ed., W. Mendenhall (with T. Sincich), (1993), Macmillan Pub.

Introduction to Probability and Statistics, 8th Edition, W. Mendenhall (with R. Beaver), (1991), Duxbury Press.

Statistics: a Tool for the Social Sciences, 5th Edition, W. Mendenhall (with L. Ott, R. Larson, and Rexroat), (1992), PWS Kent Pub.

A Course in Business Statistics, 3rd Edition, W. Mendenhall, (1992), PWS Kent Pub.

Statistics for Engineering and the Sciences, 3rd Edition, W. Mendenhall (with T. Sincich), (1992), Macmillan Pub.

Statistics for Management and Economics, 8th Edition, W. Mendenhall (with J. Reinmuth and R. Beaver), (1993), PWS Kent Pub.

Understanding Statistics, 5th Edition, W. Mendenhall (with L. Ott), (1990), PWS Kent Pub.

Elementary Survey Sampling, 4th Edition, W. Mendenhall, R.L. Scheaffer, (with L. Ott), (1990), Wadsworth Publ. Co.

Beginning Statistics, A to Z, W. Mendenhall, (1993), Wadsworth Publishing Co.

Finite Mathematics and Calculus with Applications to Business and Social Sciences, R. Randles (with R.V. Hogg, A.J. Schaeffer, and J.C. Hickman), (1974), Cummings Publ. Co.

Introduction to the Theory of Nonparametric Statistics, R. Randles, (with D. Wolfe) (1979), Krieger Publ.

Statistics for Engineers, 3rd Edition, R.L. Scheaffer (with J.T. McClave), (1990), Duxbury Press.

Introduction to Probability and Its Applications, R.L. Scheaffer, (1990), Duxbury Press.

Elementary Survey Sampling, Scheaffer, R.L., W. Mendenhall III, and R. L. Ott, (1996), Duxbury Press.

Activity-Based Statistics; Instructor Resources, Scheaffer, R.L., M. Gnanadesikan, A. Watkins and J. A. Witmer, (1996), Springer-Verlag.

Activity-Based Statistics; Student Guide, Scheaffer, R.L., M. Gnanadesikan, A. Watkins and J. A. Witmer, (1996), Springer-Verlag.

Handbook of Sample Sizes for Clinical Trials, J. Shuster, (1990), Chemical Rubber Co.

Practical Handbook of Sample Size Guidelines for Clinical Trials, J. Shuster (12/92). CRC Press, Boca Raton, FL

Mathematical Statistics with Applications, Wackerly, D.D., W. Mendenhall, and R.L. Scheaffer, (1996), Wadsworth Pub. Co.

Understanding and Learning Statistics by Computer, M. Yang (with D. Robinson), (1986), World Scientific Publ.

The Climate and Weather of Florida, J.A. Henry, K.M. Portier and J. Cayne (1994), Pineapple Press, Inc., Sarasota, FL.

18 IFAS Department of Statistics

The Institute of Food and Agricultural Sciences (IFAS) consists of the College of Agriculture, the Florida Cooperative Extension Service, the Agricultural Experiment Station, the School of Forest Resources and Conservation and the College of Veterinary Medicine. Approximately 500 IFAS research faculty are located in 21 departments on the main campus in Gainesville and 21 research and education centers located throughout the state. The IFAS

Department of Statistics provides statistical support and services to IFAS faculty, staff and graduate student researchers in all locations. Services include consultation and continuing education on statistical applications.

In conjunction with providing statistical services, IFAS Statistics faculty conduct statistical research to develop and evaluate methods applicable to agricultural and natural resource research. Current projects involve design and analysis of mixture experiments, estimation of bioavailability of animal nutrients, mixed model methodology, and natural resource sampling. Also, faculty in IFAS Statistics regularly teach courses on statistical methods in research, design of experiments, matrix algebra, and other statistical topics.

Currently, IFAS Statistics consists of four faculty and four support staff. In addition, graduate students with assistantships supported by the unit receive valuable hands-on experience in consulting and data analysis.

19 Division Of Biostatistics

Members of the Division of Biostatistics:

Collaborate and consult with researchers throughout the Health Science Center, and the Shands and VA Hospitals, especially within the Colleges of Medicine and Dentistry.

Teach courses and shortcourses for students within Health Science Center programs and the Department of Statistics.

Advance the science and practice of biostatistics and epidemiology by adapting and improving existing methods and creating new ones.

The Division's technical staff includes 10 PhDs (8.1 FTE), 4 masters and 2 baccalaureates. It supports 10-15 Statistics graduate students at any time (including summers), giving them valuable experience not available through traditional coursework.

20 Pediatric Oncology Group

The central statistical coordinating center of the Pediatric Oncology Group (POG), one of the just two collaborative study groups dedicated to the treatment of childhood cancer, is located in Gainesville, and is administered by the Department of Statistics. Jonathan J. Shuster, Professor of Statistics, serves as principal investigator and James L. Kepner, Associate Research Professor of Statistics, serves as Co-Principal Investigator. There are 115 medical centers (including Johns Hopkins, Harvard, Yale, Stanford, Duke, St. Jude, Florida, Miami, and South Florida), who are clinical members of POG. More than 2000 patients per year are accrued to more than 80 POG ongoing studies. Data from selected studies have been made available to faculty as well as students working on dissertations. Federal and private funding for the statistical office exceeds \$1.7 million per year, making it one of the

largest research grant functions in the state.

The Pediatric Oncology Group began as the Pediatric Division of the Southwest Cancer Chemotherapy Study Group in 1956. In 1969, the name was changed to the Pediatric Division of the Southwest Oncology Group (SWOG). In 1979, the pediatricians elected to split off from the parent group to form the POG, and after a competitive process, established the University of Florida as their statistical office in March 1980.