

# H. Anwar Ahmad

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## EDUCATION

**Michigan State University**  
Ph.D. 1994, Animal Science  
**Troy University**  
MS, 2005 Computer and Information Systems  
**Auburn University**  
MBA 1998, Business Administration  
**University of Agriculture Faisalabad Pakistan**  
MS (Hons) 1987, Animal Nutrition  
BS (Hons) 1985, Animal Husbandry

## PROFESSIONAL TRAINING

Bioinformatics, NIH-National Center for Biotechnology Information, 2005  
Risk Analysis, USDA, 1999  
Teaching Methodology IATP, UK, 1988  
Recombinant DNA Technology, UNDP, 1987  
American History Course American Center, Pakistan, 1986  
Computer Programming, Punjab University, 1986  
Diploma in International Affairs (visitor), Punjab University, 1986  
Feed Microscopy, American Soybean Association, 1984

## EXPERIENCE

4/07 to present **Jackson State University** Department of Biology  
Associate Professor Biostatistics and Manager Biostatistical Support Unit  
**Tuskegee University** College of Veterinary Medicine-Center for Computational  
Epidemiology, Bioinformatics and Risk Analysis

5/06 to 09/06 Research Associate Professor  
6/98 to 5/06 Research Assistant Professor  
Visiting Scholar, Higher Education Commission Pakistan  
Consultant, American Soybean Association  
Visiting Faculty, Lahore University of Management Sciences

6/03 to 3/07 Adjunct Faculty Troy University  
8/06 to 10/06 Adjunct Faculty AT Still University  
**Auburn University** Poultry Science Department  
8/96 to 6/98 Instructor, Business Statistics  
1/94 to 8/96 Post Doctoral Research Scientist, Poultry Science  
9/89 to 8/93 **Michigan State University** Department of Animal Science  
Teaching and Research Assistant

1/88 to 8/89 **University of Arid Agriculture** Rawalpindi Pakistan  
Lecturer, Animal Science

6/85 to 12/87 **University of Veterinary and Animal Sciences**, Lahore Pakistan  
PARC-Research Fellow

## GRANTSMANSHIP

1. **Ahmad, H.A. PI, 2010.** Establishing Biostatistical Consulting Center IN Pakistan. US States Dep-HEC, Awarded, \$338,406 for 2010-2013.
2. **Ahmad, H.A. PI, 2010.** Developing Food Safety and Risk Analysis Resources in Pakistan. Submitted to USDA-International Science Education. Grant tracking no. GRANT10512161.
3. **Ahmad, H.A. PI, 2009.** Broiler growth prediction modeling with simulations and neural networks. Submitted to USDA-CSREES-AFRI-Animal growth and nutrient utilization (CFDA 10.310). Grant tracking no. GRANT10371447.
4. **Ahmad, H.A. PI, 2008.** Egg production modeling using simulation and artificial intelligence methodologies. Submitted to NSF-Statistics (1269).
5. **Ahmad, H.A. PI, 2008.** Determination of Broiler Growth and Critical Nutrient Requirements using Artificial Intelligence Models. Submitted to USDA-CSREES. National Research Initiative: Animal Growth and Nutrient Utilization (10.206). Grant tracking no. GRANT00469275.
6. **Ahmad, H.A. Faculty Manager, 2008.** Center for Environmental Health-Biostatistical Support Unit. National Institute of Health-RCMI, Awarded \$808,539 for 2008-13.
7. **Ahmad, H.A.PI, 2006.** Risk Assessment of Antimicrobial Resistance of *Salmonella* and *Campylobacter* Isolates from Meat and Poultry Products. Submitted to Alabama Agriculture Land Grant Alliance (AALGA).
8. **Ahmad, H.A. PI, 2006.** Development and Implementation of Risk Analysis Resources in Pakistan. Submitted to Pakistan Agricultural Research Council-Agricultural Linkages Program (ALP).

## RISK

Epidemiological Survey of Cancer Incidence in Minority Population

## ANALYSIS

Foot and Mouth Disease via Cheese Imports

*Salmonella enteritidis* in Shell Eggs

Citrus Canker via Uruguayan Citrus Imports

Bovine Spongiform Encephalopathy (BSE)

Foot and Mouth Disease via Brazilian Beef Imports

## COMPUTER SKILLS

**Application Software:** Statistical Analysis (SAS, SPSS, Statview), MS

Office, Corel Suite, Database Management, Neural Networks, Modeling (@Risk, Stella), Feed Formulation (Brill, AgriData)

**Programming Languages:** QBasic, C++, HTML, LISP, Visual Basic, Java, XML, Systems: PC, UNIX, Macintosh, Networks

## HONORS

Board of Scientific Reviewers, American Veterinary Medical Association 2005-2007

Outstanding MBA Team Case Analysis, Auburn University

Outstanding Graduate Student, MSU 1990-91

Rotary International Freedom from Hunger Scholarship for Ph.D. 1989-92

University Standing and Silver Medal in MS, University of Agriculture, Faisalabad-Pakistan

Pakistan Agriculture Research Council Fellowship

## TEACHING

BIO 101 Introduction to Biology

Jackson State

BIO 202 Elementary Biostatistics

University

BIO 511 Biostatistics

BIO 711 Applied Environmental Statistics	
MIS 300 Info. System Design & Mgt. (online)	CSU-Global Campus
MHA 810 Healthcare Finance (online)	AT Still University
PATH 664 Medical Statistics	Tuskegee University
PATH 699 Risk Analysis and Modeling	
CSCI 0150 Introduction to Computer Science	
CSCI 0210 Programming I	
BIO 1100 Principle of Biology (40 times)	Troy University
CSC 324, CSC 111, CSC 112, CSC 113,	Tourou University
CSC 425, FIN 402, FIN 501, FIN 502. (Online)	International
MN 301 Business and Economic Statistics	Auburn University
CS 332 Introduction to Experts Systems	Lahore University of
CS 333 Neural Networks	Management Science
Introduction to Animal Science	University of Arid
Introduction to Poultry Science	Agriculture,
Range Management Science	Rawalpindi Pakistan

## SERVICE

Reviewer, Elsevier-Computers and Electronics in Agriculture  
 Reviewer, Poultry Science Association (J. Poultry Sci., and J App. Poultry Res.)  
 Reviewer, Journal of Science and Technology  
 Reviewer, Pakistan Journal of Zoology  
 Reviewer, Society for Risk Analysis  
 Editorial Review Board, American Veterinary Medical Assoc., 2005-07  
 External Examiner, University of Vet. & Ani. Sciences, Lahore Pakistan  
 CSET-Grievance Committee, 2010-  
 JSU-Department of Biology-Seminar Committee, 2010-  
 JSU-Department of Biology-Evaluation Committee Chair, 2007-  
 JSU-Department of Biology-Search Committee, 2007-09

## WORKSHOPS

Experimental Design and Data Analysis using SAS, Jackson State University, Mississippi, July 17, 2009.  
 Risk Assessment, Tuskegee University, December 2-4, 2001  
 Risk Assessment, Tennessee State University, 2000

## BOOK REVIEW

[Handbook on Import Risk Analysis for Animals and Animal Products](#),  
 Journal of the American Veterinary Medical Association, March 15, 2005,  
 Vol. 226, No. 6, Pages 889-895

## JOURNAL PUBLICATIONS

1. Mahmud, O., Dates, C., Akil, L., and **Ahmad, H. A.**, 2010. Recent Trends in HIV and Tuberculosis in the United States and Sub-Saharan Africa (submitted: manuscript ID IJERPH-5597).
2. Garner, J.A., **Ahmad, H.A.** and Dacus, C.M., 2010. Soil Resource Area Affects Herbivore Health. International Journal of Environmental Research and Public Health (submitted: manuscript ID: IJERPH-4486)
3. **Ahmad, H. A.**, 2010. Egg Production Forecasting: Determining efficient modeling approaches. Journal of Applied Poultry Research (submitted: manuscript ID JAPR-10-00266)
4. Akil, L., **H.A. Ahmad**, 2010 Effects of Socioeconomic Factors on Obesity Rates in Four Southern States and Colorado. Ethnicity and Disease (accepted: in press; manuscript ID 10-057)
5. **Ahmad, H.A.**, B. Tameru, D. Nganwa, L. Ayanwale, T. Habtemariam, R. W. Fite, 2009. Quantitative Risk Assessment of Introduction of Foot and Mouth Disease Virus into the U.S. through Cheese Importation. Journal of Veterinary and Animal Sciences (submitted)
6. **Ahmad, H. A.**, 2009. Poultry Growth Modeling using Neural Networks and Simulated Data. J. Appl. Poultry Res. 18:440-446
7. **Ayanwale, L.**, Moorer, E., Shaw, H., Habtemariam, T., Blackwell, V., Foster, P., Findlay, H., Tameru, B., Nganwa, D., **Ahmad, A.**, Beyene, G., Robnett, V, 2008. Perceptions of HIV and Prevention Education among Inmates of Alabama Prisons. American Journal of Health Studies 23: (4) 179-184
8. **Steiss, J. E.**, C. Schaffer, **H. A. Ahmad**, V. L. Voith, 2007. Evaluation of plasma cortisol levels and behavior in dogs wearing bark control collars. Journal Applied Animal Behavior Science 106: (1-3) 96-106
9. **Ahmad, H.A.**, M. Mariano, 2006. Comparison of Forecasting Methodologies using Egg Price as a Test Case. Poultry Science 85:798-807
10. **Steiss, J.**, **H. A. Ahmad**, P. Cooper, C. Ledford, 2004. Physiological Responses in Healthy Labrador Retrievers during Field Trial Training and Competition. J Vet Intern Med 18:147-151
11. **Ahmad, H.A.** and R.J. Balander, 2004. Physiological Response of Layers to Alternative Feeding Regimen of Calcium Source and Phosphorus Level. International Journal of Poultry Science 3(2): 100-111
12. **Ahmad, H.A.** and R.J. Balander, 2003. Alternative Feeding Regimen of Calcium Source and Phosphorus Level for Better Eggshell Quality in Commercial Layers. J. Appl. Poultry Res. 12:509-514
13. **Ahmad, H.A.** and David A. Roland, Sr., 2003. Effect of Environmental Temperature and TSAA on Performance and Profitability of Laying Hens: An Econometric Approach. J. Appl. Poultry Res. 12:476-482
14. **Roland, Sr., D.A.**, **H.A. Ahmad**, S.S. Yadalam, and T. Sefton, 2003. Effect of Nongenetically Modified Phytase Supplementation on Commercial Leghorns. J. Appl. Poultry Res. 12:257-263
15. **Ahmad, H.A.** and David A. Roland, Sr., 2003. Effect of Method of Feeding and Formulation on Performance and Profitability of Laying Hens: An Econometric Approach. J. Appl. Poultry Res. 12:291-298
16. **Ahmad, H.A.** and David A. Roland, Sr., 2003. Efficient Feeding of Molted Hens with Different Feeding and Formulation Methods. International Journal of Poultry Science 2(6): 383-388
17. **Ahmad, H.A.**, S.S. Yadalam, and D. A. Roland, Sr., 2003. Calcium Requirements of Bovans Hens. International Journal of Poultry Science 2(6): 417-420

18. [Habtemariam](#), T., B. Tameru, D. Nganwa, L. Ayanwale, **A. Ahmad**, D. Oryang, H. AbdelRahman, 2002. Epidemiologic modelling of HIV and CD4 cellular/molecular population dynamics. *Kybernetes* 31(9/10): 1369-1379
19. [Habtemariam](#), T., B. Tameru, D. Nganwa, L. Ayanwale, **A. Ahmad**, D. Oryang, H. AbdelRahman, G. Gray, J. Cohen, S. Kreindel, 2002. Application of systems analysis in modelling the risk of bovine spongiform encephalopathy (BSE). *Kybernetes* 31(9/10):1380-1390
20. [Ahmad](#), H.A., Gerry V. Dozier, and D.A. Roland, Sr., 2001. Egg Price Forecasting using Neural Networks. *J. Appl. Poultry Res.* 10:162-171
21. [Habtemariam](#), T., P. Yu, D. Oryang, D. Nganwa, O. Ayanwale, B. Tameru, H. Abdelrahman, **A. Ahmad** and V. Robnett, 2001. Modelling Viral and CD4 Cellular Population Dynamics in HIV: Approaches to Evaluate Intervention Strategies. *Cellular and Molecular Biology* 47 (7): 1201-1208
22. [Ahmad](#), H.A., D.A. Roland, Sr., M.M. Bryant, and J. Self, 1997. Effects of Increased Light and Added Methionine in Molted Hens. *J. Appl. Poultry Res.* 6:373-380
23. [Ahmad](#), H.A., M. M. Bryant, Sevgi Kucuktas, and David A. Roland, Sr., 1997. Econometric Feeding and Management for First Cycle Phase Two Dekalb Delta Hens. *Poultry Science* 76:1256-1263
24. [Ahmad](#), H.A., D.A. Roland, Sr., and Syed S. Sohail, 1996. Effect of Time of Feed Withdrawal and Killing before Processing on Defeathering of Spent Hens. *J. Appl. Poultry Res.* 5:325-329
25. [Ahmad](#), A. and M.Y. Malik, 1985. Chick Growth Inhibition of Soybean Meal as Affected by Autoclaving and Water Treatments. *Pakistan Journal of Scientific Research* 37:65-69

## ABSTRACTS/PRESENTATIONS/PROCEEDINGS

1. **Ahmad, H.A.**, and Akil, L., 2010. Effects of Socioeconomic Factors on Obesity Rates in Four Southern States and Colorado (Abstract # 09.03.02). 12<sup>th</sup> RCMI International Symposium on Health Disparities, Nashville Convention Center, Nashville, Tennessee, USA, December 6-9
2. **Ahmad, H.A.**, and Akil, L., 2010. Relationships between Obesity and Cardiovascular Diseases in Four Southern States and Colorado (Abstract # 09.03.03). 12<sup>th</sup> RCMI International Symposium on Health Disparities, Nashville Convention Center, Nashville, Tennessee, USA, December 6-9
3. Akil, L. and **Ahmad**, H.A., 2010. Relationships between Obesity and Cardiovascular Diseases in Four Southern States and Colorado. Jackson Heart Study Scientific Conference, Jackson Convention Center, Jackson, Mississippi, USA, September 23-24
4. Akil, L. and **Ahmad**, H.A., 2010. Effects of Socioeconomic Factors on Obesity Rates in Four Southern States and Colorado. 7<sup>th</sup> International Symposium on Environmental Health, Marriott Hotel, Jackson, Mississippi, USA, September 12-15
5. Garner, J.A., **Ahmad**, H.A. and Dacus, C.M., 2010. Soil Resource Area Affects Herbivore Health. 7<sup>th</sup> International Symposium on Environmental Health, Marriott Hotel, Jackson, Mississippi, USA, September 12-15
6. Mahmud, O., Dates, C. **Ahmad**, H.A., 2010. Recent Trends in HIV and Tuberculosis in the United States and Sub-Saharan Africa. 7<sup>th</sup> International Symposium on Environmental Health, Marriott Hotel, Jackson, Mississippi, USA, September 12-15

7. **Ahmad, H.A.**, 2009. Physiological Parameter Modeling using Neural Networks. Department of Biology Seminar Series, Jackson State University, 331 John A. Peoples Building, Jackson, MS USA. October 20
8. [Ahmad, H.A.](#), 2009. Modeling Poultry Physiological Parameters using Neural Networks (Abstract no. 25). 98<sup>th</sup> Poultry Science Association Annual Meeting, Raleigh Convention Center, Raleigh, North Carolina, USA. July 20-23
9. **Ahmad, H.A.**, 2008. Data Analysis using Analysis of Variance. **Invited Lecture**. University of Veterinary and Animal Science, Lahore, Pakistan, December 22
10. **Ahmad, H.A.**, 2008. Experimental Design and Multivariate Models. **Invited Lecture**. University of Veterinary and Animal Science, Lahore, Pakistan, December 23
11. [Ahmad, H.A.](#), 2008. Egg Production Modeling with Neural Networks. 11<sup>th</sup> RCMI. International Symposium on Health Disparities. Sheraton Waikiki Hotel Honolulu, Hawaii, December 1 - 4
12. **Ahmad, H.A.** and T. Habtemariam, 2008. Computational Modeling for Biological Problems: Effective HAART Therapy. 11<sup>th</sup> RCMI International Symposium on Health Disparities. Sheraton Waikiki Hotel Honolulu, Hawaii, December 1 - 4
13. [Ahmad, H.A.](#), 2008. New Methodologies for Egg Production Modeling. 5<sup>th</sup> International Symposium on Recent Advances in Environmental Health Research (PB-52). Marriott Hotel, Jackson, MS, USA. September 14-17
11. [Ahmad, H.A.](#), 2007. Broiler Growth Modeling with Neural Network using Simulated Data. Fourth International Symposium on Recent Advances in Environmental Health Research (PB-32). Marriott Hotel, Jackson, MS, USA. September 16-19
12. **Ahmad, H.A.**, 2007. Neural Network Modeling of Broiler Growth with Simulated Data. **Invited Seminar** at Auburn University's Poultry Science Department, March 5
13. **Ahmad, H.A.**, 2007. Modeling Approaches to Solve Biological Problems. **Invited Seminar** at Jackson State University's Department of Biology, January 16
14. **Ahmad, H.A.**, T. Habtemariam, B. Tameru, D. Nganwa, L. Ayanwale, G. Beyene, 2006. Modeling broiler growth with Neural Networks using simulated data. PSA 2006 Annual Meeting, University of Alberta, Edmonton, Canada July 16-19
15. **Ahmad, H. A.** Risk Analysis with Reference to International Trade and WTO, 2005. **Invited Seminar** at University of Veterinary and Animal Sciences, Lahore Pakistan, January 8
16. **Ahmad, H.A.**, T. Habtemariam, B. Tameru, G. Beyene, D. Nganwa, O. Ayanwale, V. Robnett, 2004. Effective HAART Combination Therapies for HIV/AIDS. Ninth RCMI International Symposium on Health Disparities, Baltimore Marriott Waterfront, Baltimore, MD December 8-11
17. **Ahmad, H.A.**, B. Tameru, G. Beyene, V. Robnett, D. Nganwa, T. Habtemariam, 2004. Multivariate Statistical Analysis of HAART Combination Therapies to Compare Efficacies in HIV/AIDS Patients. 5<sup>th</sup> Annual Biomedical Research Symposium June 24-25 at Kellogg Conference Center, Tuskegee University, Tuskegee.
18. **Ahmad, H.A.**, T. Habtemariam, B. Tameru, D. Nganwa, O. Ayanwale, 2002. Quantitative Risk Assessment of *Salmonella enteritidis* using a Dynamic Egg Production Model. 2002 Society for Risk Analysis Annual Meeting- December 8-11 at New Orleans Marriott, New Orleans, LA
19. **Ahmad, H. A.**, T. Habtemariam, O. Ayanwale, B. Tameru, D. Nganwa, M. Modarres, 2002. Risk of FMD virus Introduction into the US via Cheese Importation (from around the World). 3<sup>rd</sup> Annual Biomedical Research Symposium – June 20-21 at Kellogg Conference Center, Tuskegee University, Tuskegee, AL, USA.

20. **Ahmad**, H.A., T. Habtemariam, T. Berhanu, D. Oryang, D. Nganwa, H. Abdelrahman, O. Ayanwale, 2001. Developing a Professional Microbial Risk Analysis Training Course. Presented in the Annual Meeting of Society for Risk Analysis at Seattle, Washington, USA December 2-5
21. **Ahmad**, H.A., T. Berhanu, and E. Orhun, 2001. Quantitative Risk Assessment for Software Engineering: A Case Study. Presented in the Annual Meeting of Society for Risk Analysis at Seattle, Washington, USA December 2-5
22. **Tameru**, B., H.A. **Ahmad**, T. Habtemariam, D. Oryang, D. Nganwa, H. Abdelrahman, O. Ayanwale, 2001. Dynamic Model for BSE. Presented in the Annual Meeting of Society for Risk Analysis at Seattle, Washington, USA December 2-5
23. **Nganwa**, D., T. Habtemariam, S. ElAmin, D. Oryang, B. Tameru, H. Abdel Rahman, **H. A. Ahmed**, L. Ayanwale and V. Robnett, 2001. Qualitative Risk Assessment for the Introduction of Bovine Spongiform Encephalopathy through Importation of Live Cattle and Animal Products into the United States using an adjacent region/country as an example. Presented in the Annual Meeting of Society for Risk Analysis at Seattle, Washington, USA December 2-5
24. **Oryang**, **D.**, T. Habtemariam, D. Nganwa, B. Tameru, P. Yu, L. Ayanwale, R. Fite, R. McDowell, S. Kaplan, S. Wilson, A. Ahl, M. McElvaine, C. Narrod, P. Sutmoller, H. Abdel Rahman, A. Goodman<sup>3</sup>, C. Zepeda<sup>4</sup>, K.W. Forsyth, T. W. Disney, and **A. Ahmad**. Quantitative Risk Assessment model of Foot and Mouth Disease Virus Introduction into the USA through the Importation of Meat. 2001 Annual Meeting Risk Analysis in an Interconnected World, Westin Hotel Seattle, WA, December 2-5.
25. **Ahmad**, H.A., S.S. Yadalam, and D.A. Roland, Sr., 2001. Influence of Allzyme (Phytase) Supplementation on Bovans Hens. Presented (abstract # 1976) in the International Animal Agriculture and Food Science Conference July 24-28, Indianapolis, Indiana, USA
26. **Ahmad**, H.A., S.S. Yadalam, and D.A. Roland, Sr., 2001. Calcium Requirement of Bovans Hens. Presented (abstract # 107) in the 2<sup>nd</sup> International Poultry Scientific Forum, Georgia World Congress Center, Atlanta, Georgia, USA, January 15-16
27. **Ahmad**, H.A., 2000. **Invited Paper:** Islamic concept of Land, Community, and Culture. Presented in the 58<sup>th</sup> Professional Agricultural Workers Conference, Kellogg Conference Center, Tuskegee University, Tuskegee, Alabama, USA December 3-5
28. **Ahl**, Alwynell S. **Ahmad**, H.A., and T. Habtemariam, 2000. Risk Analysis Training for Agricultural Hazards. Presented (Abstract # P 1.25) in Annual Meeting of Society of Risk Analysis, Crystal Gateway Marriott, Arlington, Virginia, USA December 3-6
29. **Ahmad**, H.A, 2000. **Invited Paper:** Econometric Feeding and Management of Commercial Leghorns: Optimizing Profits Using Integrated Approach. Presented at American Soybean Association, Poultry Nutrition Seminars, Karachi Hilton, Karachi, Pakistan, March 29
30. **Ahmad**, H.A, 2000. **Invited Paper:** Incorrect M+C/Lysine Ratio for Commercial Leghorn Hens. Presented at American Soybean Association, Poultry Nutrition Seminars, Karachi Hilton, Karachi, Pakistan, March 29
31. **Ahmad**, H.A, 2000. **Invited Paper:** Econometric Feeding and Management of Commercial Leghorns: Optimizing Profits Using Integrated Approach. Presented at American Soybean Association, Poultry Nutrition Seminars, Islamabad Best Western, Islamabad, Pakistan, March 30
32. **Ahmad**, H.A, 2000. **Invited Paper:** Incorrect M+C/Lysine Ratio for Commercial Leghorn Hens. Presented at American Soybean Association, Poultry Nutrition Seminars, Islamabad Best Western, Islamabad, Pakistan, March 30

33. **Ahmad**, H.A., Gerry V. Dozier, and D.A. Roland, Sr., 2000. Egg Price Forecasting using Neural Networks. Presented (abstract # S195) in 1<sup>st</sup> International Poultry Scientific Forum, Georgia World Congress Center, Atlanta, Georgia, USA, January 17-18
34. **Ahmad**, H.A. and D.A. Roland, Sr., 1998. Comparative Profitability and TSAA Requirements of Laying Hens Based Upon Market Variables (Abstract # S113). 19<sup>th</sup> Annual Meeting of Southern Poultry Science Society, Atlanta, Georgia, USA, January 19-20
35. **Ahmad**, H.A. and Chetan S. Sankar, 1997. Use and Misuse of Collaborative Technologies in Global Business. Presented and Published in the Proceedings of First Conference of the Informatics in International Business Enterprises Working Group at American University, Washington, D.C., USA, October 12-13
36. **Ahmad**, H.A., M.M. Bryant, and D.A. Roland, Sr., 1997. Profit Comparison of Two Commercial Strains Varying Widely in Feed Consumption and Egg Weight Using Different Egg and Feed Prices (Phase I). Poultry Science 76 (Supplement 1) S20 Abstract. Presented in 18<sup>th</sup> Annual Meeting of Southern Poultry Science Society Atlanta, Georgia, USA, January 20-21
37. **Ahmad**, H.A. and D.A. Roland, Sr., 1996. Effect of Feeding Method (Constant vs Variable) and Method of Formulation (Lysine vs Protein) on Performance and Profits of Molted Dekalb Hens (Phase II). Poultry Science 75 (Supplement 1) 48 (Abstract). Presented in 85<sup>th</sup> Poultry Science Association Meeting, Louisville, Kentucky, USA, July 8-12
38. **Ahmad**, H.A. and D.A. Roland, Sr., 1996. Effect of Temperature and Total Sulfur Amino Acid Levels on Performance and Profits of Molted Dekalb Delta Hens (Phase I). Poultry Science 75 (Supplement 1) 47 (Abstract). Presented in 85<sup>th</sup> Poultry Science Association Meeting, Louisville, Kentucky, USA, July 8-12
39. **Ahmad**, H.A., M.M. Bryant, and D.A. Roland, Sr., 1996. Effect of Feeding Method (Constant vs Variable) and Method of Formulation (Lysine vs Protein) on Performance and Profits of Dekalb Hens (Phase III). Poultry Science 75 (Supplement 1) S3 (Abstract). Presented in 17<sup>th</sup> Annual Meeting of Southern Poultry Science Society South, Atlanta, Georgia, USA, January 22-23
40. **Ahmad**, H.A., M.M. Bryant, and D.A. Roland, Sr., 1996. Effect of Feeding Method (Constant vs Variable) and Method of Formulation ((Lysine vs Protein) on Performance and Profits of Dekalb Hens (Phase II). Poultry Science 75 (Supplement 1) S2 (Abstract). Presented in 17<sup>th</sup> Annual Meeting of Southern Poultry Science Society South, Atlanta, Georgia, USA, January 22-23
41. **Ahmad**, A., David A. Roland, Sr., M.M. Bryant, and J. Self, 1995. Econometric Nutrition: Maximizing Profits in Dekalb Delta Hens by Optimizing Total Sulfur Amino Acid Intake (TSAA) and Environmental Temperature. Poultry Science 74 (Supplement 1) S1 (Abstract). Presented in 16<sup>th</sup> Annual Meeting of Southern Poultry Science Society Atlanta, Georgia, USA, January 16-17
42. **Roland**, Sr., D.A., M.M. Bryant, and A. **Ahmad**, 1994. Influence of Supplying 24 Hours Light for 7 Days Prior to Molt and Added Methionine in Molt Feed on Performance of Molted Hens. Poultry Science 73 (Supplement 1) 103 (Abstract). Presented in 83<sup>rd</sup> PSA Meeting, Mississippi State University, Starkville, Mississippi, USA, August 7-12
43. **Ahmad**, H.A. and R.J. Balander, 1993. Plasma Levels of Calcium, Phosphorus, Estradiol, and Progesterone as Influenced by Alternative Daily Phosphorus Levels and Calcium Sources. Poultry Science 72 (Supplement 1) 116 (Abstract). Presented in 82<sup>nd</sup> Poultry Science Association Meeting, Michigan State University, East Lansing, Michigan, USA, July 26-29



44. **Ahmad**, H.A. and R.J. Balander, 1993. Egg Production, Specific Gravity, Shell Thickness, and Egg Weight as Influenced by Alternative Daily Phosphorus Levels and Calcium Sources. Poultry Science 72 (Supplement 1) 48 (Abstract). Presented in 82<sup>nd</sup> Poultry Science Association Meeting, Michigan State University, East Lansing, Michigan, USA, July 26-29