

Craig W. Bednarz
Associate Professor
University of Georgia

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Condensed Vitae

Date of Birth: July 11, 1967

Place of Birth: Slaton, Texas

Degrees Received:

B.S., Agricultural Education, 1989, Texas Tech University, Lubbock, TX

M.S., Crop Science, 1991, Texas Tech University, Lubbock, TX

Ph.D., Agronomy, 1995, University of Arkansas, Fayetteville, AR

Membership in Honorary Academic Societies:

American Society of Agronomy 1990-present

Sigma Xi Scientific Research Society 1992-present

Honors and Awards Received:

Received the Southern Branch of the American Society of Agronomy Early Career Research Award in 2004.

Received the University of Georgia - Tifton Campus, Award of Excellence for Junior Scientist in 2000.

Appointed associate editor of Agronomy Journal (journal of the American Society of Agronomy) in 2004.

Invited to serve as a member of a USDA-CSREES review team of the programs at the Texas Tech University College of Agricultural Sciences and Natural Resources in 2004.

Appointed to the Georgia Seed Arbitration Council by the University of Georgia, College of Agricultural and Environmental Sciences, Associate Dean for Research in 2004.

Appointed chairman of the Tifton campus micro-gin committee in 2001. This committee is charged with overseeing the design and construction of a scaled down commercial cotton gin plant to be used in research, instruction and extension programs. Construction was completed in the spring of 2004.

Appointed to the Cotton Defoliation Workgroup in 2001, a workgroup consisting of selected cotton researchers from across the U.S. Cotton Belt that evaluate various cotton harvest aids for their efficacy.

Accepted an invitation from the Chinese Academy of Agricultural Sciences to present a paper at the 2000 International Conference on Engineering and Technological Sciences in Beijing, China.

Accepted an invitation to visit the Chinese Cotton Research Institute in Anyang, Henan China and discuss potential collaborative efforts with Chinese scientists in 2000.

Accepted an invitation from the CSIRO Plant Industry in Narrabri, NSW Australia to visit the Australian Cotton Research Institute and discuss potential collaborative efforts with Australian scientists in 2000.

Professional Positions Held:

April 2002 – present:	Associate Professor, University of Georgia, Tifton, Georgia
Dec 1996 – April 2002:	Assistant Professor, University of Georgia, Tifton, Georgia
April 1996 - Dec 1996:	Assistant Professor, Mississippi State University, Stoneville, Mississippi
Jan. 1992 - April 1996:	Graduate Assistant, University of Arkansas, Fayetteville, Arkansas
Aug. 1989 - Dec. 1991:	Graduate Assistant, TexasTech University, Lubbock, Texas

Number of Professional Publications:

Journal Articles: 30

Extension Bulletins: 3

Extension Circulars and Progress Reports: 81

Professional Society Proceedings: 22

Abstracts: 43

Popular Articles: 47

Twelve Most Significant Publications:

1. Bednarz, C.W. and M.W. van Iersel. 1999. Continuous whole plant carbon dioxide exchange rates in cotton treated with pyriproxyfen. *J. Cotton Sci.*, 3:53-59.
2. Bednarz, C.W., D.C. Bridges and S.M. Brown. 2000. Analysis of cotton yield stability across population densities. *Agronomy J.*, 92:128-135.
3. Bednarz, C.W., G.H. Harris and W.D. Shurley. 2000. Agronomic and economic analyses of cotton starter fertilizers. *Agronomy J.*, 92:766-771.
4. Bednarz, C.W. and P.M. Roberts. 2001. Spatial yield distribution in cotton following early season fruit removal. *Crop Sci.*, 41:1800-1808.
5. Bednarz, C.W. and M.W. van Iersel. 2001. Temperature response of whole-plant carbon dioxide exchange rates of four upland cotton cultivars differing in leaf shape and leaf pubescence. *Commun. Soil Sci. Plant Anal.*, 32 (15-16): 2485-2501.
6. Bednarz, C.W., S.N. Brown, J.T. Flanders, T.B. Tankersley and S.M. Brown. 2001. Effects of foliar applied harpin protein on cotton lint yield, fiber quality and crop maturity. *Commun. Soil Sci. Plant Anal.*, 33 (5-6):933-945.
7. Bednarz, C.W., W.D. Shurley and W.S. Anthony. 2001. Losses in yield, quality and profitability of cotton from improper harvest timing. *Agronomy J.*, 94:1004-1011.
8. Potter, T.L., C.C. Truman, D.D. Bosch and C.W. Bednarz. 2003. Cotton defoliant runoff as a function of active ingredient and tillage. *J. Env. Quality* 32:2180-2188.
9. Dumka, D., C.W. Bednarz and B.W. Maw. 2003. Delayed initiation of fruiting as a mechanism of improved drought avoidance in cotton. *Crop Science*. 44:528-534.
10. Ritchie, G.L., C.W. Bednarz, P.H. Jost and S.M. Brown. 2004. Cotton growth and development. University of Georgia College of Agricultural and Environmental Sciences Bulletin No. 1252.
11. Bednarz, C.W., W.D. Shurley, W.S. Anthony and R.L. Nichols. 2004. Yield, quality and profitability of cotton produced at varying plant densities. *Agronomy J.* (Accepted).
12. Bednarz, C.W. and R.L. Nichols. 2004. Phenological and morphological components of cotton crop maturity. *Crop Science* (accepted).

Professional Contributions Other Than Publications:

Grants Received:

Dr. Bednarz has received a total of 52 grants since his appointment date with the University of Georgia, 44 of which were competitive, totaling \$2,525,916. The competitive grants were received from The Georgia Agricultural Commodity Commission for Cotton, Cotton Incorporated, The Georgia Agricultural Commodity Commission for Canola, The University of Georgia Research Foundation and USDA-CSREES.

Supervision of Student Research:

Dr. Bednarz has supervised or directed the research of the following students since his appointment date with The University of Georgia:

STUDENT	DEGREE	MAJOR	CHAIR	GRAD. DATE
Robert L. Millings	M.S.	Crop Science	Yes	
Cory I. Mills	M.S.	Crop Science	Yes	
Jared R. Whitaker	M.S.	Crop Science	Yes	
Glen L. Ritchie	Ph.D.	Crop Science	Yes	
Andrew Higginbotham	Ph.D.	Crop Science	No	
Said En Nahli	M.S.	Crop Science	No	Dec. 2003
Gene Hart	M.S.	Crop Science	No	
Disha Dumka	M.S.	Crop Science	Yes	May 2002
Henry M. Harris, II	M.S.	Crop Science	No	May 2000
Charles Scott Bundy	Ph.D.	Entomology	No	Dec. 1999
Marvin Leonard Wells	Ph.D.	Entomology	No	Dec. 1999

Editorship of Learned Publications:

In 2005 Dr. Bednarz began an appointment as associate editor of Agronomy Journal, a scientific publication of the American Society of Agronomy. Dr. Bednarz has reviewed the following manuscripts since his appointment date with The University of Georgia: Crop Science (7X), Agronomy Journal (9X), Soil Science (2X), Journal of Cotton Science (5X), Journal of Production Agriculture (1X), Journal of Peanut Science (1X), Australian Journal of Botany (1X), Journal of Agricultural Science (1X), Canadian Journal of Plant Science (1X) and Journal of Plant Nutrition (1X).

Contributions to Public Service:

While Dr. Bednarz has no public service appointment, he has participated in several extension activities. Dr. Bednarz developed and presented the cotton physiology session for the 1997- 2004 Georgia Cotton Production Workshops. Topics developed and presented in these sessions included plant growth

regulator use, plant growth and development, seeding rates, starter fertilizer, narrow row cotton, harvest timing, irrigation timing and crop water use.

Dr Bednarz has also participated in several county delivery activities. Since his appointment date, Dr. Bednarz has developed and presented 101 seminars for the cooperative extension service in Georgia as well as surrounding states. Most of these seminars were presented upon invitation and included the findings of his research.

Dr. Bednarz has also participated in several county agent training sessions. Dr. Bednarz has developed and presented 4 seminars at the statewide county agent training held annually in Rock Eagle, GA. These seminars included cotton growth and development, irrigation scheduling and crop water use, and narrow row cotton.

Dr. Bednarz has also received several national speaking invitations from the cotton industry. Dr. Bednarz has presented seminars for Cotton Incorporated, Monsanto, the American Society of Agronomy – Continuing Education Program, Delta and Pine Land Company, Uniroyal, Aventis, Bayer CropScience, DuPont and The Georgia Farm Bureau Federation (29 total).

In 1997 Dr. Bednarz assumed the role of editor of the University of Georgia Cotton Research and Extension Report, an annual publication. Dr. Bednarz upgraded the format and implemented a more rigorous review process significantly improving the quality of the publication. This publication contains the results of small and large plot research conducted at the main campus, branch campuses and several cotton producing counties in Georgia. This publication contains approximately 60 research reports that are submitted by approximately 70 scientists, graduate students, and county extension agents and is distributed to other scientists, county extension agents, and producers within the state and across the U.S. Cotton Belt.

Service to Professional Societies/Organizations:

- 1997: Judge, poster competition, Beltwide Cotton Research and Production Conferences, New Orleans, LA.
- 1997: Chair, crop physiology session, ASA, CSSA, SSSA Annual Meetings, Anaheim, CA.
- 1998: Chair, cotton physiology session, Beltwide Cotton Research and Production Conferences, San Diego, CA.
- 1999: Chair, cotton physiology session, Beltwide Cotton Production and Research Conferences, Orlando, FL.
- 2000: Chair Elect, cotton physiology conference, Beltwide Cotton Production and Research Conferences, San Antonio, TX.
- 2000: Chair, cotton physiology session, Beltwide Cotton Production and Research Conferences, San Antonio, TX.
- 2000: Chair, crop physiology session, ASA, CSSA, SSSA Annual Meetings, Minneapolis, MN

- 2000: Chair session, International Conference on Engineering and Technological Sciences, Session 6, Technology Innovation and Sustainable Agriculture, Beijing, China.
- 2000: Member of Crop Science Society of America C462 "Crop Science Teaching Award Selection Committee".
- 2001: Chairman of Crop Science Society of America C462 "Crop Science Teaching Award Selection Committee".
- 2000-2004: Member of American Society of Agronomy A211 "Budget and Finance Committee".
- 2001: Chair, cotton physiology conference, Beltwide Cotton Production and Research Conferences, Anaheim, CA.
- 2001-2005: Member, Beltwide Uniform Cotton Defoliation Workgroup.
- 2002: Chair, cotton physiology session, Beltwide Cotton Production and Research Conferences, Atlanta, GA.
- 2002: Judge, poster competition, Beltwide Cotton Research and Production Conferences, Atlanta, GA.
- 2002: Chairman of Crop Science Society of America C462 "Crop Science Teaching Award Selection Committee".
- 2003: Chair, American Society of Agronomy A211 "Budget and Finance Committee".
- 2003: Chair, cotton physiology session, Beltwide Cotton Production and Research Conferences, Nashville, TN.
- 2004: Member, Crop Science Society of America C451 "Crop Science Research Award Committee".
- 2004: Chair, Southern Branch American Society of Agronomy meetings, Biloxi, MS.
- 2004: Chair, cotton physiology session, Beltwide Cotton Production and Research Conferences, San Antonio, TX.
- 2004: Member, Georgia Quality Cotton Award Committee (sponsored by Bayer CropScience).