

JAMES W. JONES
Distinguished Professor Emeritus
Agricultural and Biological Engineering Department
University of Florida
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SPECIALIZATION

Integrating science and engineering disciplines to understand and optimize agricultural and biological systems. Engineering systems analysis. Creating and leading transdisciplinary systems research initiatives. Dynamic modeling cropping systems, including crop, soil, climate, and management interactions; climate variability and climate change impacts on agricultural systems; integrated analysis of economic and environmental impacts; research on management of soils and crops for climate change adaptation and mitigation; decision support systems for climate risk management in agriculture and water resources; integrating plant genetic, physiological, and environmental information for predicting and optimizing crop production. Analysis of food production at field to global scales. Provide leadership in interdisciplinary communities of agricultural systems modeling.

EDUCATIONAL BACKGROUND

North Carolina State University	Biological and Agricultural Engineering	PhD	1975
Mississippi State University	Agricultural and Biological Engineering	MS	1970
Texas Tech. University	Agricultural Engineering (Top Engr. Graduate)	BS	1967

EMPLOYMENT

2019-Present	Distinguished Professor Emeritus, Agricultural and Biological Engineering Department, University. of Florida
2016-2019	Program Director, National Science Foundation (NSF), CBET ENG Directorate
2011-2019	Distinguished Professor and Director, Florida Climate Institute, University. of Florida
1998-2011	Distinguished Professor, Agricultural and Biological Engineering Department, University of Florida.
1981-1998	Professor, Agricultural and Biological Engineering Department, University of Florida.
1977-1981	Associate Professor, Agricultural Engineering Department, University of Florida.
1973-1977	Research Engineer, USDA-ARS, and Assistant Professor, Agricultural and Biological Engineering Department, Mississippi State University
1971-1973	Research Engineer and Graduate Research Associate, USDA-ARS, North Carolina State University, Raleigh, NC
1967-1971	Research Engineer, USDA-ARS. Mississippi State University, Starkville, MS

TEACHING, ADVISING, AND/OR INSTRUCTIONAL ACCOMPLISHMENTS

Responsibilities at the National Science Foundation

Dr. Jones was on assignment between April 2016 through September 2019 at the National Science Foundation (in a Rotator position on leave from the University of Florida). His responsibility at NSF was Program Director for the interdisciplinary cross-discipline initiative named “Innovations at the Nexus of Food, Energy, and Water Systems (INFEWS)”. This multiple Directorate initiative funded over \$100 million to support transdisciplinary research for better understanding and developing innovative technologies and methods to understand and improve food, energy, and water systems, taking into account interactions among food, energy, and water systems. Funded research included technologies and systems for collecting and using food wastes, urban food production, and innovations in resource utilization for food production. While at NSF, he also conceived of and led the development of a new funding opportunity, “Signals in the Soil (SitS)” that involves multiple disciplines and four NSF Directorates).

University of Florida Responsibilities

Dr. Jones retired from his full time position at the University of Florida, but is still working part time for the University on special initiatives that involve national initiatives as well as collaborating with researchers in the Institute of Sustainable Food Systems and in plant genetics on research projects. He is leading an effort on circular economies for food and agricultural systems, which can provide more food needed to meet future demands that are beneficial to our economy, natural resources, and environment. This effort includes business, academia, and policy entities. In this effort, he is working with national and international professional organizations and with the National Academies of Science, Engineering, and Medicine (NASEM). He also serves on the NASEM Board on Agriculture and Natural Resources.

Between 2010 and 2019, Dr. Jones was co-founder and Director of the multi-university, interdisciplinary Florida Climate Institute (FCI). The FCI was founded after he and his cooperators at FSU and UM created the Southeast Climate Consortium (SECC), a multi-state consortium of researchers from climate science, agriculture, economics, and social sciences. He led in the creation of the computer decision support system (AgroClimate.org) for use by producers and extension; this is still in use and being supported by Extension for managing risks in crop and livestock production associated with climate variability and climate change. He remains active in publishing his research results in major journals.

Between 1977 and 2011, Dr. Jones was responsible for development and use of agricultural systems models for better understanding complexities of food and agricultural systems and to apply these models for improving those systems. He was responsible for attracting grant funding, publishing his scientific research in international journals, and for developing and teaching a graduate course on agricultural systems modeling and analysis. After he retired from his regular faculty position in 2011, the university hired him back using research funding. He continued to lead the state-wide Florida Climate Institute and to conduct advanced research at the interface of engineering, biology, and molecular genetics, working with graduate students and publishing his research.

Advising Graduate Students

Dr. Jones served on a total of 117 graduate student MSc and PhD advisory committees; this includes 74 PhD students and 43 MSc students. He was chair of 34 PhD student committees and 22 MSc student committees.

Course Instruction

ABE 5646 - Simulation of Agricultural and Biological Systems (3 Semester-Hour Credits). The objectives for this course are: (1) to learn basic concepts of systems analysis; (2) to develop capabilities to model biological and agricultural systems and analyze their behavior by simulation methods; and (3) to become exposed to various biological and agricultural simulation models. The laboratory exposes students to example models of biological and agricultural systems, ranging from simple models of organism to integrated cropping system models. In addition, students conduct research on a topic of contemporary importance to the field, study available literature on the topic, and present their findings to the class. (100% Responsibility).

ABE 6933/AGR 6932. Computer Simulation of Crop Growth and Management Responses (3 Semester-Hour Credits). The goal of this course, co-taught by Dr. Jim Jones and Dr. Ken Boote, is for students to learn how crop simulation models are developed, including the major relationships used to model processes in the soil, plant and atmosphere. Students learn how to operate these DSSAT models for model validation and applications to various issues, including climate variability, water management, yield gap analysis, and site-specific management. (50% Responsibility).

Continuing Education (Training Programs/Short Courses, Visiting Scholars, Post Docs)

Training Programs/Short Courses. Starting in 1985, Dr. Jones developed a two-week course on Crop Simulation, which has evolved into a course held annually or more frequently by various institutions in the USA and abroad, reaching over 1000 researchers. Developing and teaching these 1- or 2-week courses has been demanding, but it has helped UF gain national and international recognition. These courses are continuing in the US and abroad, some still with participation by Dr. Jones.

Visiting Scholars and Post Docs. Dr. Jones has hosted over 60 visiting researchers from other institutions in the US

and other countries for extended periods of time to perform research in his lab. These researchers spent anywhere from one month to one year working on research and learning how to develop dynamic cropping system models, how to apply models in climate impact research, and how to integrate systems approaches in their research and technology transfer programs. In addition, he had many other scientists who visited for less periods of time ranging up to about 2 weeks.

CONTRACTS AND GRANTS (Last 15 Years spent at University of Florida)

The table below shows the total grant and contract funding during the last 20 years (\$43,804,153). This total can also be broken down into projects on which Dr. Jones served as Principal Investigator (PI) (over \$23 million) and those on which he served as Co-Principal Investigator (Co-PI) (about \$20 million). About 75 percent of the grants were to support research on climate change impacts on food and agricultural systems and adaptation to climate. An additional 9 percent of these grants were obtained to conduct research on environmental impacts of water and nutrient management on water quality and soil degradation, resulting in total funding on environmental issues of about \$37 million during the last 20 years. The remaining funding (about \$6.8 million over the last 20 years) was spent in support of research aimed at understanding ways to improve crop management, including water and nutrient management as well as crop variety effects.

Role	Total
Principal Investigator	\$23,865,842
Co-Principal Investigator	\$19,938,311
Totals	\$43,804,153

A majority of his grant support (about 57 percent of the total) was provided to conduct research in the USA whereas the remaining amount (43percent of the total amount he received) was spent on international research issues.

During the last five years, he has served as PI or Co-PI on over \$26 million of external research grant funding from various national and international funding agencies, with almost all of those funds being allocated to support research on climate-related impacts and adaptation approaches in agriculture. A common theme across all of these grants has been modeling cropping systems as affected by climate and modeling effects of cropping systems on water and soil quality as also influenced by climate and climate variability.

EDITOR OF SCHOLARLY JOURNAL, SERVICE ON AN EDITORIAL ADVISORY BOARD OR REVIEWER FOR A SCHOLARLY JOURNAL

1. Editorial Board of Agricultural Systems (2002-2012)
2. Scientific Advisory Board for the Global Environmental Change and Food Systems (GECAFS) international research program (2003-2008)
3. Scientific Advisory Committee for the International Research Institute for Climate and Society (IRI), headquarters are in Palisades, NY with Columbia University (2001-present)
4. Editor of Agricultural Systems international journal (1988-2002).
5. Reviewer for Climatic Change, Nature Climate Change, ASABE Transactions, Agronomy Journal, Journal of Applied Climatology and Meteorology, Agricultural Systems, and others.
6. Reviewer of IPCC AR5 Chapter 3, Impacts of 1.50 C global warming on natural and human systems. (2018).

INTERNATIONAL ACTIVITIES

2015 – present. Member, Board on Agriculture and Natural Resources (BANR), of the National Academies of Science, Engineering, and Medicine.

2010 – 2017. Co-founder (with C. Rosenzweig, Columbia University) and Executive Committee member of the

international consortium, AgMIP – Agricultural Model Intercomparison and Improvement Project. This effort has over 1,000 active members worldwide, and was created to improve our ability to perform scientific analyses of food systems and food security at multiple levels from farm to global levels (www.agmip.org).

2013 – 2016. International Life Sciences Institute (ILSI) Research Foundation. Member of the Board of Trustees.

2012 – 2016. Member of the International Advisory Committee of the Center for Integrated Modeling for Sustainable Agriculture and Nutrition Security (CIMSANS)

2008-2012. Co-PI of the Agricultural Knowledge Initiative project with universities in India. Supervisor of one PhD student from India on this project and committee members on several others.

2008. Member of the writing team for the Climate Change Challenge Program of the CGIAR.

2008. Member of writing team for the OASIS Challenge Program of the CGIAR, working with ICRISAT and IFPRI scientists. The proposal aimed to address desertification.

1999-present. Member, Science Advisory Committee of the International Research Institute (IRI) for climate and society, Columbia University, New York (<http://iri.columbia.edu>).

1996-present. Co-PI of Peanut CRSP research project (funded by US-AID), to work with peanut researchers in Burkina Faso and Ghana. Ken Boote of Agronomy is PI.

2004-08. Member of the International Science Advisory Board of the European SEAMLESS project. This project aims to produce models and information systems for use by the EC.

2002-08. PI of the Soil Management CRSP Carbon Sequestration research program for Ghana and Mali that was funded by USAID.

2005-08. Member of Board of Directors, International Consortium for Agricultural Systems Applications (ICASA) (<http://icasa.net>). ICASA promotes the effective use of systems approaches in agricultural research, development, and technology transfer worldwide.

2002-08. Organized and held several international training programs on cropping system models (primarily DSSAT) and their applications. During the last seven years, Dr. Jones has helped organize or present training courses in Georgia, China, Kenya, Ghana, Brazil, Spain, South Africa, Colombia, and Argentina. These programs have been highly successful, and were done in cooperation with the International Consortium for Agricultural Systems Applications (ICASA).

1999-2008. Member, Science Advisory Committee of the Global Environmental Change and Food Systems (GECAFS) Project, an international project under the IGBP, WCRP, and IHDP programs (<http://www.gecafs.org>).

1999-2006. Member of Board of Trustees of the International Center for Tropical Agriculture (CIAT). Headquarters are in Cali, Colombia; offices are in Africa, Asia, and Latin America (<http://www.ciat.cgiar.org>). Served as Chair of Program Committee from 2001-04.

2004-06. Chair, Board of Trustees of the International Center for Tropical Agriculture (CIAT). Headquarters are in Cali, Colombia; offices are in Africa, Asia, and Latin America (<http://www.ciat.cgiar.org>)

2004-06. Member, Science Advisory Committee of HarvestPlus (<http://harvestplus.org>), funded by the CGIAR, Gates Foundation, USAID and Canada aimed at increasing nutrition of staple foods in developing countries where malnutrition and infant mortality is so high

2004-06. Member, CGIAR Future Harvest Alliance Board (<http://www.cgiar.org>). This Board provides oversight and strategic direction to all 15 of the CGIAR centers worldwide. Chair task force for developing principles and procedures for greater Center cooperation

1999-2005. Chair, Board of Directors, International Consortium for Agricultural Systems Applications (ICASA) (<http://icasa.net>). ICASA promotes the effective use of systems approaches in agricultural research, development, and technology transfer worldwide.

2002-05 Co-PI of the international NASA project, Carbon from Communities Project. This project applied remote sensing technology to the explore possibilities of assessing soil carbon changes over time and space.

2002. Served on a Task Force for USAID on strategies for impact assessment of their International R&D programs

MEMBERSHIP AND ACTIVITIES IN THE PROFESSION

- a) National Academy of Engineering (NAE), (Interdisciplinary Engineering Section) **Elected in 2012**
- b) American Association for the Advancement of Science (AAAS) (2009-present; **Elected Fellow Member**)
- c) American Society of Agricultural Engineers (ASAE) (1969-Present) **Elected Fellow Member**
- d) American Society of Agronomy (1980 – Present) **Elected Fellow Member**
- e) Soil Science Society of America (1980 – Present) **Elected Fellow Member**
- f) Crop Science Society of America (1980 – Present)

HONORS & AWARDS

- 2018 Distinguished Achievement Award, ABE Department, University of Florida; for Exceptional Achievement and Leadership in the Profession
 - 2017 Presidential Citation Award. For paper that highlights role of agricultural & Biological Engineering in the food-energy-water nexus.
 - 2015 Presidential Award, American Society of Agronomy (ASA), for increasing scientific rigor of agronomic modeling to address pressing challenges of global climate change
 - 2012 Elected Fellow of the American Association for the Advancement of Science (AAAS)
 - 2012 John Deere Gold Medal Award, American Society of Agricultural and Biological Engineers
 - 2012 Elected to the National Academy of Engineering
 - 2011 Biological & Agricultural Engineering Outstanding Alumnus, North Carolina State University
 - 2010 L.R. Ahuja Agricultural Systems Modeling Award by American Society of Agronomy
 - 2008 Amer. Agr. Econ. Assoc. award for “Publication of Enduring Quality” for Global Climate Change and United States Agriculture, Nature, May, 1990. (Co-Author)
 - 2006 Elected Fellow of the Soil Science Society of America
 - 2006 Michael P. Malone International Leadership Award for Education, National Association of State and Land Grant Universities (NASULGC)
 - 2006 ASABE Superior Paper Award-Honorable Mention, Transactions of the American Society of Agricultural and Biological Engineers (ASABE). Co-Author.
 - 2005 Kishida International Award, ASAE
 - 2005 ASAE Superior Paper Award, Transactions of ASAE (Senior Author)
 - 2005 UF Doctoral Dissertation Advisor/Mentoring Award
 - 2005 Best Practice Paper Award, Journal of Irrigation and Drainage Engineering (Co-Author)
 - 2004 IFAS International Fellow (Institute of Food and Agriculture Sciences, University of Florida)
 - 2004 Distinguished International Educator, University of Florida
 - 2004 University of Florida Faculty Research Fellow (UFRF)
 - 2003 Distinguished Fellow, Bagley Engineering School, Mississippi State University
 - 2001 ASAE Outstanding 2001 Annual Meeting Paper Award (Co-Author)
 - 2000 International Research Award, Gamma Sigma Delta-Florida Chapter
 - 1999 Elected Fellow of American Society of Agronomy
 - 1997 Professor Excellence Program Award
 - 1993 OICD fellowship – CIAT, Cali, Colombia
 - 1990 Elected Fellow of the ASAE
 - 1989 OICD Fellowship - France
 - 1967 National ASAE Student Award
 - 1967 Top Engineering Graduate, Texas Tech University
 - 1967 Aggie of the Year, Texas Tech University
- Honor Societies: Tau Beta Pi, Alpha Epsilon, Phi Kappa Phi, Gamma Sigma Delta

PUBLICATIONS¹ (Over 500 total scientific publications)

¹ * Graduate Student supervised by Dr. J. W. Jones

** Post-Doc working under Dr. J. W. Jones when work was done

Master of Science Thesis:

Jones, James Wigington. 1970. A Simulated Environmental Model Involving Temperature, Evaporation, Rainfall, and Soil Moisture. Department of Agricultural and Biological Engineering, Mississippi State University, Mississippi State, MS. 39762. 141 pages.

PhD Dissertation:

Jones, James Wigington. 1975. A Simulation Model of Boll Weevil Population Dynamics as Influenced by the Cotton Crop Status. Biological and Agricultural Engineering Department. North Carolina State University, Raleigh, NC 27695. 254 pages.

Books, Co-Authored (3)

1. Wallach, D., Makowski, D., Jones, J. W., & Brun, F. 2019. Working with Dynamic Crop Models: Methods, Tools, and Examples for Agriculture and Environment, 3rd Edition. Elsevier/Academic Press.
2. Wallach, D., Makowski, D., Jones, J. W., & Brun, F. 2014. Working with Dynamic Crop Models: Methods, Tools, and Examples for Agriculture and Environment, 2nd Edition. Elsevier/Academic Press. 487 pp.
3. Wallach, D., Makowski, D., & Jones, J. W. 2006. Working with Dynamic Crop Models: Methods, Tools, and Examples for Agriculture and Environment, 3rd Edition. Elsevier/Academic Press.

Books Edited (9 total)

4. Chassignet, E., J. W. Jones, V. Misra, and J. Obeysekera (eds.). 2017. Florida's Climate: Changes, Variations, & Impacts. Florida Climate Institute. <http://doi.org/10.17125/fci2017>. 632 pp.
5. Kihara, J., Fatondji, D., Jones, J.W., Hoogenboom, G., Tabo, R., Bationo, A. (Eds.). 2012. Improving Soil Fertility Recommendations in Africa using the Decision Support System for Agrotechnology Transfer (DSSAT). Springer. <http://www.springer.com/cn/book/9789400729599>. ISBN 978-94-007-2959-9 / 978-94-007-9690-4.
6. Wallach, D., Makowski, D. & Jones, J. W (Eds.). 2006. Working with Dynamic Crop Models: Evaluating, analyzing, parameterizing and using them. Elsevier/Academic Press. Amsterdam. 447 pp.
7. Kropff, M. J., P. S. Teng, P. K. Aggarwal, J. Bouma, B. A. M. Bouman, J. W. Jones, and H. H. van Laar (eds.). 1997. Systems Approaches for Sustainable Agricultural Development: Applications of Systems Approaches at the Field Level. Kluwer Academic Publishers, Boston. 465 pp.
8. Rosenzweig, C., L. H. Allen, Jr., J. W. Jones, G. Y. Tsuji, and P. Hildebrand (eds.). 1995. Climate Change and Agriculture: Analysis of Potential International impacts. ASA Special Publication No. 59. Amer. Soc. Agron., Madison, WI. 382 pp.
9. Hesketh, J. D. and J. W. Jones (eds.). 1980. Predicting Photosynthesis for Ecosystem Models: Volume I. CRC Press, Boca Raton, FL. 273 pp.
10. Hesketh, J. D. and J. W. Jones (eds.). 1980. Predicting Photosynthesis for Ecosystem Models: Volume II. CRC Press, Boca Raton, FL. 279 pp.

Books, Contributors of Chapters (70 total)

1. Boote, K. J., Cheryl Porter, James W. Jones, Peter J. Thorburn, K.C. Kersebaum, Gerrit Hoogenboom, J.W. White, and J.L. 2016. Hatfield Sentinel Site Data for Crop Model Improvement—Definition and Characterization. Advances in Agricultural Systems Modeling Vol 7. L. R. Ahuja (ed.). ASA, Minnesota. doi:10.2134/advagriscystmodel7.2014.0019
 2. Boote, Kenneth J., C. Eduardo Vallejos, James W. Jones, and Melanie J. Correll. 2016. Crop Modeling
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Approaches for Predicting Phenotype of Grain Legumes with Linkage to Genetic Information. In Xinyou Yin and Paul Struik (Eds.), *Crop Systems Biology*. Springer. pp 163-192.

3. Van Bruggen, A., J. W. Jones, M. Fernandez, K. Garrett, and K. J. Boote. 2014. Crop diseases and climate change in the AgMIP framework. Ch. 1 In C. Rosenzweig and D. Hillel (Eds.), *Handbook of Climate Change and Agroecosystems: The Agricultural Model Intercomparison and Improvement Project (AgMIP)*. Imperial College Press & American Society of Agronomy.
4. Antle, John M., Roberto O. Valdivia, Kenneth J. Boote, Sander Janssen, James W. Jones, Cheryl H. Porter, Cynthia Rosenzweig, Alexander C. Ruane, and Peter J. Thorburn. 2014. AgMIP's Transdisciplinary Agricultural Systems Approach to Regional Integrated Assessment of Climate Impacts, Vulnerability, and Adaptation. Ch. 2 In C. Rosenzweig and D. Hillel (Eds.), *Handbook of Climate Change and Agroecosystems: The Agricultural Model Intercomparison and Improvement Project (AgMIP)*. Imperial College Press & American Society of Agronomy. pp. 27-44.
5. Kihara, Job, Dilys S. MacCarthy, Andre Bationo, Saidou Koala, Jonathon Hickman, Jawoo Koo, Charles Vanya, Samuel Adiku, Yacob Beletse, Patricia Masikate, Karuturi P. C. Rao, Carolyn Z. Mutter, Cynthia Rosenzweig, and James W. Jones. 2014. Perspectives on Climate Effects on Agriculture: The International Efforts of AgMIP in Sub-Saharan Africa. In C. Rosenzweig and D. Hillel (Eds.), *Handbook of Climate Change and Agroecosystems: The Agricultural Model Intercomparison and Improvement Project (AgMIP)*. Imperial College Press & American Society of Agronomy. pp 3-23.
6. Thorburn, Peter J., Kenneth J. Boote, John N. G. Hargreaves, Perry L. Poulton, and James W. Jones. 2014. Cropping Systems Modeling in AgMIP: A New Protocol-Driven Approach for Regional Integrated Assessments. Ch 4 In C. Rosenzweig and D. Hillel (Ed.), *Handbook of Climate Change and Agroecosystems: The Agricultural Model Intercomparison and Improvement Project (AgMIP)*. Imperial College Press & American Society of Agronomy.
7. Jones, J.W., W. L. Bartels, C.Fraisse, K. J. Boote, K. T. Ingram, and G. Hoogenboom. 2010. "Use of crop models for climate-agricultural decisions" Chapter 7 In: D. Hillel and C. Rosenzweig (eds.), *Handbook of Climate Change and Agroecosystems. ICP Series on Climate Change Impacts, Adaptation, and Mitigation - Vol. 1*. Imperial College Press, London UK. pp. 131-157.
8. Jones, J. W., J. He, K. J. Boote, P. Wilkens, C. H. Porter, and Z. Hu. 2010. "Estimating DSSAT Cropping System Cultivar-Specific Parameters Using Bayesian Techniques" In: L.R. Ahuja and L. Ma (eds.), *Methods of Introducing System Models into Agricultural Research. Advances in Agricultural Systems Modeling 2*. American Society of Agronomy, Madison, WI USA. In press.
9. Papajorgji, P., Gargiulo, O., Jones, J. W., and Traore, S. 2009. A UML-Based Plug&Play Version of RothC. In: Papajorgji, P.J. Pardalos, P.M. (eds.), *Advances in Modeling Agricultural Systems*, DOI: 10.1007/978-0-387-75181-8_10, Springer Science-Business Media, LLC 2008
10. Boote, K. J., L. H. Allen, Jr., P.V.V. Prasad, and J. W. Jones. 2010. "Testing Effects of Climate Change in Crop Models" Chapter 6 In: D. Hillel and C. Rosenzweig (eds.), *Handbook of Climate Change and Agroecosystems. ICP Series on Climate Change Impacts, Adaptation, and Mitigation - Vol. 1*. Imperial College Press, London UK. pp. 109-129
11. Boote, K. J., G. Hoogenboom, J. W. Jones, and K. T. Ingram. 2008. Modeling N-Fixation and Its Relationship to N Uptake in the CROPGRO Model. In: L. Ma, L. Ahuja, and T. Bruulsema (eds.) *Quantifying and Understanding Plant Nitrogen Uptake for Systems Modeling*. Taylor & Francis Group LLC, Boca Raton, FL. pp 13-46.
12. Boote, K.J., F. Sau, G. Hoogenboom, J.W. Jones. 2008. Experience with water balance, evapotranspiration, and predictions of water stress effects in the CROPGRO model. In Ahuja, L.R., Anapalli, S.A., Reddy, V.R., Yu, Q. (Eds.), *Modeling the response of crops to limited water: Recent advances in understanding and modeling water stress effects on plant growth processes. Advances in Agricultural Systems Modeling. Trans-disciplinary Research, Synthesis, and Applications, vol. 1*. ASA-SSSA-CSSA Publication.

13. Hoogenboom, G., Fraisse, C. W., Jones, J. W., Ingram, K. T., O'Brien, J. J., Bellow, J. G., Zierden, D., Stooksbury, D., Paz, J., Garcia Y Garcia, A., Guerra, L. C., Letson, D., Breuer, N. E., Cabrera, V. E., Hatch, L. U. & Roncoli, M. C. 2008. Climate-based agricultural risk management tools for Florida, Georgia and Alabama, USA. In: Sivakumar, M. V. & Hansen, J. W. (eds.), *Climate Prediction and Agriculture: Advances and Challenges*. Springer. Berlin, Germany. pp. 273-278
14. Papajorgji, P., Gargiulo, O., Jones, J. W., and Traore, S. 2008. A UML-Based Plug&Play Version of RothC. In: Papajorgji, P.J. Pardalos, P.M. (eds.), *Advances in Modeling Agricultural Systems*. Springer Science Business Media, LLC. pp 193-208. DOI:10.1007/978-0-387-75181-8_10, _
15. Jeuffroy, M., Barbottin, A., Jones, J. W. & Lecoecur, J. 2006. Using crop models for different crop varieties. In: Wallach, D., Makowski, D. & Jones, J. W. (eds.). *Working with Dynamic Crop Models: Evaluating, Analyzing, Parameterizing and Using Them*. Amsterdam: Elsevier. pp.281-308.
16. Jones, J. W., Graham, W. D. & Makowski, D. 2006. Application of extended and ensemble Kalman filters to soil carbon estimation. In Wallach, D., Makowski, D. & Jones, J. W.. (eds.), *Working with Dynamic Crop Models: Evaluating, analyzing, parameterizing and using them*. Elsevier. Amsterdam. pp. 399-408
17. Jones, J. W., Wallach, D. & Meynard, J. M. 2006. An Overview of Crop Model Applications. In Wallach, D., Makowski, D. & Jones, J. W. (eds.), *Working with Dynamic Crop Models: Evaluating, analyzing, parameterizing and using them*. Elsevier. Amsterdam. pp. 251-256.
18. Makowski, D., Guérif, M., Jones, J. W., Graham. 2006. Data assimilation with crop models. In: Wallach, D., Makowski, D. & Jones, J. W. (eds.), *Working with Dynamic Crop Models: Evaluating, analyzing, parameterizing and using them*. Elsevier. Amsterdam. pp. 151-172.
19. Messina*, C. D., Boote, K. J., Loffler, C., Jones, J. W. & Vallejos, C. E. 2006. Model assisted genetic improvement of crops. In: Wallach, D., Makowski, D. & Jones, J. W. (eds.), *Working with Dynamic Crop Models: Evaluating, analyzing, parameterizing and using them*. Elsevier. Amsterdam. pp. 309-335.
20. Jones, J. W., Walen*, V., Doumbia, M. & Gijsman, A. J. 2005. Soil carbon sequestration: Understanding and predicting responses to soil, climate and management. In: Lal, R., Uphoff, N., Stewart, B. A. & Hansen, D. O. (eds.). *Climate Change and Global Food Security*. Boca Raton, FL: CRC Press, Taylor & Francis Group. pp. 407-434.
21. Jones, J. W. 2002. Pour une bonne utilisation de modèles de culture. Applying knowledge of climate variability to agricultural systems In: Wallach, Daniel (ed.), INRA, Castanet-Toulouse, France. 20 pp.
22. Jones, J. W., Gijsman, A. J., Parton, W. J., Boote, K. J., and Doraiswamy, P. 2002. Predicting soil carbon accretion: The role of biophysical models in monitoring and verifying soil carbon. In: *A Soil Carbon Accounting System for Emissions Trading - Special Publication, Soil Management Collaborative Research Support Program* (ed.). University of Hawaii, Honolulu, HI. pp. 41-68.
23. Tsuji, G. Y., Toit, A. du, Jintrawet, Attachai, Jones, James W., Bowen, Walter D., Ogoshi, Richard M., Uehara, Goro .2002. Benefits of models in research and decision support: The IBSNAT experience In: *Agricultural System Models in Field Research and Technology Transfer*, Ahuja, L. R., Ma, L., & Howell, T. A. (eds). Lewis Publishers, New York. pp.71-89.
24. Jagtap S. S. and J. W. Jones, 2001. Scaling-up crop models for regional yield and production estimation: A case-study of soybean production in the state of Georgia, USA. In: K. Kobayashi (ed.), *Proceedings of Crop Monitoring and Prediction at Regional Scales*, Tsukuba, Japan, February 19-22, 2001.
25. Hansen**, J. W., Jones, J. W. 2000. Scaling-up crop models for climate prediction applications. In: *Climate Prediction and Agriculture*, Sivakumar, M. V. K (ed.). International START Secretariat, Washington, D.C. pp. 77-117.
26. Braga*, R. P., J. W. Jones, B. Basso. 1999. Weather risk in site-specific crop management profitability. In: *Proc. Fourth International Conference on Precision Farming*. ASA-CSSA-SSSA, Madison, WI, USA. pp. 1853-1863.

27. Jones, J. W., S. S. Jagtap, and K. J. Boote. 1999. Climate change: Implications for soybean yield and management in the USA. In: Kaufman, H. E. (Ed.), Proceedings of World Soybean Research Conference VI, August 4-7, 1999, Chicago. University of Illinois, Urbana-Champaign, IL. pp. 209-222.
28. Jones, J. W., and J. C. Luyten*. 1998. Simulation of biological processes. In Peart, R. M., and R. B. Curry (eds.), Agricultural Systems Modeling and Simulation. Marcel Dekker, Inc. pp. 19-62.
29. Beinroth, F. H., J. W. Jones, J. P. Calixte*, P. Papajorgji**, and L. R. Perez Alegria. 1998. Evaluation of land resources using crop models and GIS. In Tsuji, G. Y., G. Hoogenboom, and P. K. Thornton (eds.), Understanding Options for Agricultural Production. Kluwer Academic Press, Boston. pp. 293-311.
30. Boote, K. J., J. W. Jones, and G. Hoogenboom. 1998. CROPGRO model for grain legumes. In Tsuji, G. Y., G. Hoogenboom, and P. K. Thornton (eds.), Understanding Options for Agricultural Production. Kluwer Academic Press, Boston. pp. 99-128.
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LECTURES, SPEECHES OR POSTERS PRESENTED AT PROFESSIONAL CONFERENCES/MEETINGS

Invited Presentations at National & International Meetings

- James W. Jones. Presentation: Circular Economies for Food and Agricultural Systems, at Semi-annual meeting of the NASEM Board on Agriculture and Natural Resources. February 10, 2020.
- James W. Jones. Presentation: Circular Economies for Food and Agricultural Systems, at symposium on "Pathways Towards the Next Generation of Agriculture and Natural Resources in Florida". January 16, 2020.
- Jones, James W. Invited Keynote talk: Circular Economies for Food and Agricultural Systems. Chinese Society of Agricultural Engineering. Hangzhou, China. December 8, 2019.
- James W. Jones. Invited talk: Advancing Intelligent Systems for Agriculture. Zhejiang University, Hangzhou, China. December 10, 2019.

- Jones, James W. Invited talk. “Linking crop model with genetics”. AgMIP Rice Team Annual Workshop. Gargnano / Milan, Italy. October 15, 2015
- Jones, James W., M. J. Correll, K. J. Boote, S. Gezan, and C. E. Vallejos. Invited Talk. “Gene-Based Crop Modeling”. International Center for Tropical Agriculture (CIAT). Cali, Colombia. August 4, 2015
- Jones, James W., K. J. Boote, M. J. Correll, and C. E. Vallejos. “Example Gene-Based Crop Model”. NSF-sponsored workshop, Merging Crop Models and Genetics. Univ. of Florida, Gainesville, Florida. July 24, 2015
- Jones, James W., K. J. Boote, M. J. Correll, and C. E. Vallejos. “Dynamic Crop Models: Concepts and Approaches”. NSF-sponsored workshop on Merging Crop Models and Genetics. University of Florida, Gainesville, Florida. July 20, 2015
- Jones, James W. Opening talk. “The Agricultural Model Intercomparison and Improvement Project: Data Interoperability”. Presented at the AgMIP-USDA Data Harmonization Workshop, National Agricultural Library, Beltsville, MD. May 11, 2015
- Jones, James W. Invited talk. “Meeting the Global Challenge: Food, Energy, Water Nexus”. International Summit on Food, Water, and Energy NEXUS. Florida A&M University. March 27, 2015
- Jones, James W. “Identifying Critical Issues”. USDA-ARS, Washington, DC. Joint GEOGLAM/AgMIP Workshop on Integrating Earth Observations with Models to Forecast Within-Season Crop Production at Multiple Scales. March 10, 2015
- Jones, James W. Keynote talk, “Setting an Agenda for Pest and Disease Modeling in AgMIP”. Inaugural AgMIP Pest & Disease Modeling workshop. Gainesville, FL. February 24, 2015
- Jones, James W. Invited talk. “AgMIP Integrated Assessment of Food Security”. International Food Policy Research Institute. Washington, DC. December 2, 2014
- Jones, James W. Invited Seminar. “Responding to the Climate Change Grand Challenge”. Utah State University, Logan Utah. Vice President for Research Invitation. November 10, 2014
- Jones, James W. invited presentation. “Scenarios and Predictions of Future Crop Production”. USDA-GEOGLAM Workshop on “Strategies to enhance monitoring and forecasting of global agricultural production” USDA-ARS, Beltsville, MD. August 5, 2014
- Jones, James W. Invited talk. “Global Challenges: Climate Change”. ASABE Global Engagement Day, ASABE Annual International Meeting, Montreal, Canada. July 24, 2014.
- Jones, James W. Invited talk. “AgMIP – Agricultural Model Intercomparison and Improvement Project”. ASABE Global Engagement Day, ASABE Annual International Meeting, Montreal, Canada. July 24, 2014.
- Jones, James W. Lecture. “Introduction to dynamic agricultural and environmental system models”. MACSUR Modelling Workshop, “Working with Dynamic Crop Models”. Leibniz Centre for Agricultural Landscape Research (ZALF), Müncheberg, Germany. May 19, 2014.
- Jones, James W. Lecture. “The basics of simulation”. MACSUR Modelling Workshop, “Working with Dynamic Crop Models”. Leibniz Centre for Agricultural Landscape Research (ZALF), Müncheberg, Germany. May 20, 2014.
- Jones, James W. Keynote talk. “Crop Growth Modeling”. University-Industry Consortium Annual Meeting. Jackson, MS. May 1, 2014
- Jones, James W. Invited talk. “Model-Based Integrated Assessment of Food Security”. International Fertilizer Development Center. Muscle Shoals, AL. March 27, 2014
- Jones, James W. Invited talk. “Model-Based Integrated Assessment of Food Security”. Future of Food Programme, Oxford University, Oxford, UK. February 13, 2014
- Jones, James W. Invited talk. “Model-Based Integrated Assessment of Food Security”. Centre for Food Security, Reading University, Reading, UK. February 14, 2014
- Jones, James W., John Antle, and Roberto Valdivia. Invited talk. “New Methods for Regional Assessment of Climate Impact and Adaptation in Agricultural Systems”. International Tri-Societies Annual Meeting, Tampa, FL. November 4, 2013

- Jones, James W. Invited talk. "Open Data: The Foundation for Better Decision Making". Presented to the International Life Sciences Institute (ILSI) Research Foundation Board meeting. October 9, 2013.
- Jones, James W. Presentation. "Data and Research for Sustainable Food Security". Seminar given at the University of Florida. June 18, 2013
- Jones, James W. Presentation. "History and Overview of DSSAT". Presented to 2013 Training Program on "Assessing Crop Production, Nutrient Management, Climatic Risk and Environmental Sustainability with Simulation Models". University of Georgia, Griffin, GA. May 20, 2013
- Jones, James W. Invited talk. "The Future of World Agriculture". Presented to the Agronomy Graduate Student Association 2nd Annual Agronomy Roundtable for improving networks and developing professionals. University of Florida. February 28, 2013
- Jones, James W., Cynthia Rosenzweig, Jerry Hatfield, Ken Boote, Peter Thorburn, Senthold Asseng, Jean-Loius Durand, Simona Bassu, and Tao Li. Invited talk. "Lessons Learned from Initial AgMIP Crop Model Intercomparisons". Presented to the International Annual Meeting of the American Society of Agronomy, Cincinnati, Ohio. October 22, 2012
- Jones, James W., and John Porter. Invited talk. "Contribution of Crop Modeling to Current Global Challenges". Presented at the INRA Research Center, Paris, France in a tribute to Dr. Nadine Brisson. October 17, 2012
- Jones, James W. Lecture. "Introduction to dynamic agricultural and environmental system models". MACSUR Modelling Workshop, "Working with Dynamic Crop Models". University of Helsinki, Helsinki, Finland. August 25, 2012
- Jones, James W. Lecture. "The basics of simulation". MACSUR Modelling Workshop, "Working with Dynamic Crop Models". University of Helsinki, Helsinki, Finland. August 25, 2012
- Jones, James W. Invited talk. "Climate Change and Florida Response". Presented to University of Florida Retired Faculty meeting, University of Florida, Gainesville, FL. March 21, 2012
- Jones, James W. Keynote talk. "Biophysical Crop Models for Biological, Environmental, and Economic Analyses". Presented at the Institute of Biological Engineering, Indianapolis, Indiana. March 3, 2012
- Jones, James W. Invited talk. "Agriculture". Presented to American Meteorology Society. Washington, DC. November 1, 2011
- Jones, James W. Invited talk. "Future Needs and Uses of Crop Modeling". Presented at the International Annual Meeting of the American Society of Agronomy, San Antonio, Texas. October 18, 2011
- Jones, James W. Invited Seminar, to receive award from NC State University as Distinguished Alumnus. "Advancing Agricultural Sciences for Assessing Climate Change Impacts & Adaptation". Biological & Agricultural Department, North Carolina State University, Raleigh. September 30, 2011
- Jones, James W. C. Rosenzweig, J. Hatfield, S. Asseng, K. J. Boote, A. Ruane. Invited talk. "The Agricultural Model Intercomparison and Improvement Project (AgMIP) Building a Transdisciplinary Framework to Assess World Food Security". Rice Modeling Workshop. China Agricultural University. Beijing, China. August 29, 2011
- Jones, James W. Presentation. "Introduction to Systems Approach". Presented at the International Fertilizer Development Center, Muscle Shoals, AL. May 9, 2011
- Jones, James W. Presentation. "Assessment of Climate Change Impacts and Adaptation Potential: Cropping Systems in the SE USA". Presented to Water Utilities Climate Working Group, Orlando, FL. May 4, 2011
- Jones, James W. Invited talk. "Running a Large Grant Program". Quincy Research and Education Center of the University of Florida, Quincy, FL. February 23, 2011
- Jones, James W. Invited presentations for a training workshop. Cropping System Models: Applications in Land Resource Management. ICRISAT Center, Patancheru, India. October 18-22, 2010
- Jones, James W. Invited talk. "Introducing The Florida Climate Institute". Presented to Coastal Engineering Faculty Seminar, University of Florida. October 13, 2010
- Jones, James W. Presentation. "Working with dynamic models for agriculture: Simulation". Presented at an INRA workshop in Montpellier, France. September 2, 2010

Jones, James W. Invited talk. "Challenges of Modeling Cropping System Responses and Adaptation to a Variable and Changing Climate". International Seminar on Modeling, "What's new, what's next in dynamic system modeling in agronomy". Conférence Hermès, 11 rue de la Vistule 75013 Paris, France. September 7, 2010

Jones, James W. Invited talk. "Downscaling from Global to Local: Implications for Vulnerability Research". NATO/OTAN Advanced Research Workshop on Global Change and Local Adaptation. Hotel Rangá, Hella, ICELAND. June 9, 2010

Jones, James W. Presentation. "Climate Change and Agriculture". Presented to IFAS International Programs Workshop on "Pathways to effective international engagement. Reitz Union, University of Florida. March 4, 2010

Jones, James W. Invited talk. "The Florida Climate Institute: Science for Societal Responses to a Changing and Uncertain Climate - A Work In Progress". Workshop on "Keeping Our Heads Above Water: Surviving the Challenges of Sea-level Rise in Florida", organized by the Archibald Biological Station. Lake Placid, FL. January 19, 2010

Jones, James W. Invited talk "Climate Change and Agroecosystems: Impacts, Adaptation, and Mitigation". International Symposium of American Society of Agronomy in the on. November 2, 2009. Pittsburgh, PA

Jones, James W. Invited talk at the international symposium "Integrated Assessment of Agriculture and Sustainable Development (AgSAP)", "Uncertainties in Simulating Cropping System Responses in Degraded Soils & Low Input Production Systems". March 10-12, 2009, Egmond aan Zee, The Netherlands

Jones, James W. Invited talk at the Punjab Agricultural University, Ludhiana, India. August 6, 2009. "Modeling cropping systems".

Jones, James W. Invited talk at the Punjab Agricultural University, Ludhiana, India. August 7, 2009. "Integrating modeling and systems analysis with agronomic research"

Invited short course in Hyderabad, India entitled "Cropping System Models: Applications in Land Resources Management". October 12-17, 2009, at the International Crops Research Institute for the Semiarid Tropics (ICRISAT). 26 students. (with Dr. K. J. Boote as co-lecturer).

Jones, James W. Research Priorities for Agriculture and Climate. Presentation made to the Workshop on Climate Change Impacts, Adaptation to Agriculture, Forestry and Fisheries at the National and Regional Levels. The workshop was organized by the SECC and the World Meteorology Organization. November 18, 2008.

Jones, James W. Crop Models and Seasonal Forecasts: Uses and Limitations. Invited presentation made at the workshop "Modeling for Decision Support in Agriculture", Passo Fundo, Brazil. October 30, 2008.

Jones, James W. Modeling Cropping Systems for Optimizing Natural Resources Management. Invited presentation made in the ASABE Centennial Session on Advances in Soil and Water Engineering, International ASABE meeting, Providence, Rhode Island. June 30, 2008.

Jones, James W. 2007. Using DSSAT to Analyze Impacts of Climate on Agriculture. International Workshop on Climate Change and Its Impacts on Agriculture: Linking Regional Climate Models with Crop Models to Analyze Climate Change Impacts on Agriculture in Brazil. Viçosa, Brazil. May 7-9, 2007

Jones, James W., 2007. Introduction to ICASA, DSSAT, and Crop Models. International Sugarcane Crop Modeling Workshop. August 6-9, 2007. Mt. Edgecombe, Republic of South Africa.

Jones, James W. June 2007. Adapting DSSAT crop models for simulating low input, rainfed cropping systems on degraded lands in the Tropics. DSSAT Crop Modeling Workshop. CIAT/TSBF and ICRISAT sponsored, Mombasa, Kenya.

Jones, James W. April 2006. Chinese Agricultural University Workshop on agricultural modeling. Presented a series of lectures on crop modeling in research and on methods for applying them, using the DSSAT cropping system models as examples. Beijing, China.

Jones, James W. Jan 2002. Modeling Cropping Systems. Presentation made in the Spanish Research Center in Zaragoza, Spain.

Jones, J. W.. Role of biophysical models in soil carbon monitoring. 11/12/02. Indianapolis, IN. Descriptors: Panelist, International, Invited. Description: Invited talk to a special symposium on soil carbon sequestration held at the International Meeting of the American Society of Agronomy.

Jones, James W.. Crop Models for Crop Management. 10/4/02. Toulouse, France (INRA). Overview of crop model applications, state of the art. Invited seminar presented to researchers at Toulouse at the national research institute (INRA) Center.

Jones, James W.. Simulating Genotype by Environment Interactions. 10/9/02. Toulouse, France (INRA). Invited seminar presented to researchers at Toulouse at the national research institute (INRA) Center (about 25 people in attendance).

Jones, James W. Models for Natural Resource Management at Regional Scales. 10/10/02. Toulouse, France (INRA). Invited seminar presented to researchers at Toulouse at the national research institute (INRA) Center.

Jones, James W. Applying Knowledge of Climate Variability to Agricultural Systems. 10/18/02. Le Croisic, France. Invited presentation to a workshop of French scientists who are active in application of crop and other agricultural system models. There were about 80 researchers in attendance. This workshop led to a plan for a book that was subsequently published in 2006; co-editor and contributed several chapters.

Jones, James W. Integrating models and experiments to understand soil carbon sequestration. 9/9/02. Bamako, Mali. Invited presentation at Research Center in Bamako, Mali to their national research agency (IER).

Jones, James W., James J. O'Brien, David Letson, Gerrit Hoogenboom, Keith T. Ingram, Clyde W. Fraisse The Southeast Climate Consortium: Integrating Research and Extension for Climate, Agriculture, and Water Resources. Presentation to the symposium "Climate Information for Managing Risks: Partnerships and Solutions for Agriculture and Natural Resources". St. Pete Beach, FL. June 10, 2008.

Jones, James W. NASULGC Annual Meeting, Reno, Nevada. July 2006. Presentation made when receiving the Malone International Award from NASULGC.

Jones, James W. National Integrated Drought Workshop, Lincoln, Nebraska, June 2006. Climate forecast use in predicting agricultural droughts.