



SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA

RELATÓRIO TÉCNICO INFORMATIVO

1 – Dados Profissionais:

Nome e Título Profissional:

Eng. Agr. Evandro José Martins – Conselheiro Federal

Eng. Agr. Francisco Soares da Silva – Conselheiro Federal

Eng. Agr. João Bosco de Andrade Lima Filho – Conselheiro Federal

Eng. Ftal. Laércio Aires dos Santos – Conselheiro Federal

Eng. Agr. Kléber Souza dos Santos – Coordenador da Coordenadoria de Câmaras Especializadas de Agronomia - CCEAGRO

Eng. Agr. Flávio H. C. Bolzan – Assessor do Confea

2 – Dados dos objetivos da viagem:

Finalidade da viagem:

Participação na Reunião Anual Internacional 2018 “Aumentando a Produtividade em um Clima em Mudança” -

Local:

Baltimore – Maryland, Estados Unidos da América.

Entidade promotora do evento:

American Society of Agronomy – ASA e Crop Science Society of America - CSSA

Período:

04 a 07 de novembro de 2018.

Definição dos objetivos a serem alcançados, indicando como e onde serão aplicados os conhecimentos adquiridos:

A participação de representantes do Sistema Confea/Crea em congressos internacionais alinha-se ao incremento das expectativas dos profissionais e empresas brasileiras no que se refere a um maior nível de inserção internacional do Sistema Confea/Crea, conforme se depreende das discussões e propostas havidas ao longo das duas últimas edições do Congresso Nacional de Profissionais – CNP:



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7º Congresso Nacional de Profissionais (agosto de 2010):	
PNS 54	<i>Motivar e viabilizar a participação de profissionais que apresentarem trabalhos técnicos, assuntos de interesses da categoria, ideias e produtos inovadores em eventos internacionais da área da Engenharia, Arquitetura, Agronomia e Geociência.</i>
PNS 55	<i>Formular propostas de política de relacionamento institucional com as Organizações Profissionais Congêneres, Embaixadas, Ministério das Relações Exteriores, Organizações Internacionais e Instituições diversas de interesse dos profissionais e empresas da área tecnológica, buscando desenvolver propostas de parceria e cooperação.</i>
8º Congresso Nacional de Profissionais (setembro de 2013):	
PNS 57	<i>Propor que o Sistema Confea/Crea viabilize a sua participação rotineira em eventos internacionais relacionados às profissões abrangidas, permitindo e buscando a aproximação com INSTITUIÇÕES DE ENSINO E PESQUISA de renome no intuito de fomentar o aprimoramento tecnológico nas áreas de ATUAÇÃO PROFISSIONAL, visando a resultados práticos e palpáveis para os profissionais e para a sociedade brasileira, por meio da abertura de possibilidades de intercâmbio profissional.</i>
PNS 58	<i>Criar um programa de inserção internacional dos profissionais de engenharia e agronomia que estão no exterior quando retornarem ao mercado brasileiro (O programa de retorno dos profissionais e a atualização dos mesmos podem ser desenvolvidos pelo Sistema Confea/Crea, por meio das entidades de classe, oferecendo cursos de atualização e especialização com recursos oriundos do Banco Nacional de Desenvolvimento Econômico e Social – BNDES,, dos ministérios e de empresas</i>
PNS 59	<i>Propor que o Sistema Confea/Crea restrinja a entrada de profissionais estrangeiros, na medida em que passe a considerar a reciprocidade ao tratamento dispensado aos profissionais brasileiros no exterior, regulamentando o registro profissional distintamente para cada país de origem, negociando e discutindo individualmente com cada nação e organizações congêneres nos diversos países que mantém relação com Brasil, disseminando a legislação profissional estrangeira aos nacionais interessados bem como atuando principalmente no âmbito do Mercosul, com o estabelecimentos das negociações da CIAM.</i>
PNS 60	<i>Propor a inserção internacional via aprimoramento dos profissionais do Sistema Confea/Crea, em tecnologia e inovação, em países estrangeiros desenvolvidos e/ou em desenvolvimento (a inserção internacional se daria a exemplo do programa ciência sem fronteiras – programa do governo brasileiro – via imersão tecnológica)</i>
PNS 61	<i>Propor a inserção internacional dos profissionais do Sistema Confea/Crea para realização de intercâmbio técnico internacional, a partir da alteração da Lei nº 6.494/77</i>
9º Congresso Nacional de Profissionais (1ª Etapa):	
PNS	<i>Celebração de convênios entre o Confea e órgãos competentes, visando</i>



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80	<i>conferir a regularização do registro do profissional estrangeiro e diplomado no exterior no Crea da jurisdição onde pretende exercer sua profissão, bem como promover a inserção internacional via aprimoramento dos profissionais do Sistema Confea/Crea em tecnologia e inovação em países estrangeiros.</i>
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As ações e estratégias de atuação internacional, por sua natureza e pelas diversidades entre as nações devem ser pautadas no diálogo e na reciprocidade, parâmetros esses indissociáveis da atuação do Sistema Confea/Crea no âmbito internacional.

A eventual não participação do Sistema Confea/Crea nos fóruns mundiais de discussão do exercício e das atividades das engenharias e agronomia ensejaria o alijamento da engenharia e agronomia brasileiras nas negociações internacionais, certamente refletindo em aspectos econômicos e de soberania nacionais.

A título de ilustração, transcrevemos trecho da publicação Sistema Confea/Crea: 75 anos construindo uma nação (2008), relativo à “internacionalização do Sistema Confea/Crea”:

É um processo que vem de gestões anteriores, de mostrar para o Brasil e para nossas categorias que se tem um mercado enorme lá fora buscando empresas e profissionais competentes, o que, aliás, historicamente já vem ocorrendo. Europeus e americanos buscam nossas melhores cabeças nos cursos de mestrado e doutorado no exterior, oferecendo condições de permanência mais vantajosas do que o retorno ao Brasil. É preciso um projeto efetivo, como o que vem sendo construído ao longo dos tempos nas gestões do Confea, para se ter maior internacionalização da atuação de empresas e profissionais brasileiros. Temos que abrir mercados no exterior para interagir com uma economia que hoje, todos reconhecem, é globalizada. É claro que temos que proteger nosso mercado, ter a nossa soberania, o nosso desenvolvimento tecnológico, mas é preciso interagir com o mundo todo.

Assim sendo, a participação da delegação brasileira visou explorar as questões específicas que afetam as sociedades tanto em países desenvolvidos, quanto em desenvolvimento, possibilitando a troca de informações acerca de resoluções concretas; participar das palestras e apresentações relativas ao exercício e fiscalização da engenharia agrônoma; desenvolver redes globais com vistas a fomentar as áreas de atuação do Sistema Confea/Crea; identificar potenciais parceiros globais, em face da participação maciça da comunidade internacional da engenharia agrônoma; e, prioritariamente, iniciar as tratativas de proposta de parceria entre o Confea e a *American Society of Agronomy*, com vistas ao oferecimento de cursos e certificação profissional, utilizando a plataforma e conteúdos da entidade norte-americana.



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- Programação das atividades:

- SUNDAY, NOVEMBER 04, 2018
- 07:30 AM - 09:00 AM
 - [SASES Registration](#)
 - *Baltimore Convention Center*
- *- Charles Street Lobby*
- 08:00 AM - 09:30 AM
 - [SAS Workshop: The Two Rs of Data Analysis](#)
 - *Baltimore Convention Center*
- *- Room 325*
- 08:00 AM - 03:30 PM
 - [USDA-ARS Sustainable Agricultural Systems Laboratory Tour](#)
 - *Baltimore Convention Center*
- *- Charles Street Entrance*
- 08:00 AM - 04:45 PM
 - [R Bootcamp for Statistical Practice in Agricultural Research](#)
 - *Baltimore Convention Center*
- *- Room 326*
- 08:30 AM - 04:00 PM
 - [Enhancing Global Collaborations in Crop Science](#)
 - *Baltimore Convention Center*
- *- Room 310*
- 08:30 AM - 05:00 PM
 - [Washington D.C. City Tour](#)
 - *Baltimore Convention Center*
- *- Charles Street Entrance*
- 09:00 AM - 10:30 AM
 - [10 SASES Brunch and Keynote Speaker](#)
 - *Hyatt Regency Baltimore Inner Harbor*
- *- Constellation Ballroom AB*
- 09:00 AM - 12:00 PM



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- [How to Assess Clientele Needs; Plan, Conduct and Evaluate Extension Programs; and Write Impact Statements](#)
- *Baltimore Convention Center*
- - *Room 329*
- 09:00 AM - 01:00 PM
- [Foray to Soldiers Delight Natural Environment Area Tour](#)
- *Baltimore Convention Center*
- - *Charles Street Entrance*
- 09:00 AM - 04:00 PM
- [United States National Arboretum and the National Mall Tour](#)
- *Baltimore Convention Center*
- - *Charles Street Entrance*
- 09:30 AM - 12:00 PM
- [ASA Board of Directors Meeting](#)
- *Hyatt Regency Baltimore Inner Harbor*
- - *Constellation Ballroom F*
- 10:00 AM - 11:30 AM
- [SAS Workshop: Describing the Data](#)
- *Baltimore Convention Center*
- - *Room 325*
- 10:30 AM - 05:00 PM
- [Forage and Grazinglands Tour to Wye Experiment Station and Wye Plantation Tour](#)
- *Baltimore Convention Center*
- - *Charles Street Entrance*
- 10:45 AM - 12:15 PM
- [11 SASES Club Poster Contest](#)
- *Hyatt Regency Baltimore Inner Harbor*
- - *Atrium*
- 12:30 PM - 03:20 PM
- [12 SASES Undergraduate Research Contest - Oral](#)
- *Baltimore Convention Center*
- - *Room 320*
- 01:00 PM - 02:30 PM
- [SAS Workshop: A Picture is Worth 104 Words](#)
- *Baltimore Convention Center*



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- - Room 325
 - 01:00 PM - 04:00 PM
 - [Agmip Investigator Meeting](#)
 - *Baltimore Convention Center*
- - Room 323
 - [Baltimore City Tour](#)
 - *Baltimore Convention Center*
- - Charles Street Entrance
 - [USDA-ARS Gracenet, REAP, NUOnet, & Related Databases Update](#)
 - *Baltimore Convention Center*
- - Room 333
 - 01:00 PM - 05:00 PM
 - [Field Scale Agricultural Remote Sensing: sUAS, Drones, and Beyond](#)
 - *Baltimore Convention Center*
- - Room 329
 - [Nutrient Thank Tank](#)
 - *Baltimore Convention Center*
- - Room 331
 - 01:30 PM - 02:30 PM
 - [C312 Journal of Plant Registrations Editorial Board Meeting](#)
 - *Baltimore Convention Center*
- - Charles Lobby VIP Suite
 - 01:45 PM - 05:20 PM
 - [14 C-2 Graduate Student Oral Competition](#)
 - *Baltimore Convention Center*
- - Room 313
 - 02:30 PM - 03:30 PM
 - [15 Graduate Student Leadership Panel](#)
 - *Baltimore Convention Center*
- - Room 321
 - 03:00 PM - 04:30 PM
 - [SAS Workshop: There is No Reason to Reinvent the Wheel](#)
 - *Baltimore Convention Center*
- - Room 325



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- 03:00 PM - 04:45 PM
- [Golden Opportunity Scholars Orientation](#)
- *Baltimore Convention Center*
- - *Room 332*
- 03:00 PM - 05:00 PM
- [NCSRP Benchmarking Team Meeting](#)
- *Hyatt Regency Baltimore Inner Harbor*
- - *Conway Room*
- 03:00 PM - 06:30 PM
- [Soy Q Team Meeting-By Invitation Only](#)
- *Hyatt Regency Baltimore Inner Harbor*
- - *Executive Boardroom*
- 03:30 PM - 05:00 PM
- [16 Hot Topics in Agronomy and Soil Science](#)
- *Baltimore Convention Center*
- - *Room 322*
- [17 SASES Speech Contest - Prelims I](#)
- *Baltimore Convention Center*
- - *Room 320*
- [18 SASES Speech Contest - Prelims II](#)
- *Baltimore Convention Center*
- - *Room 318*
- 03:30 PM - 05:30 PM
- [Department Heads/Chairs Roundtable](#)
- *Hyatt Regency Baltimore Inner Harbor*
- - *Chesapeake AB*
- 04:00 PM - 05:00 PM
- [ASA Town Hall Meeting](#)
- *Baltimore Convention Center*
- - *Room 330*
- 04:00 PM - 05:30 PM
- [19 Turf Industry Update Oral](#)
- *Baltimore Convention Center*
- - *Room 309*



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- 04:00 PM - 06:00 PM
- [20 Graduate Student Networking Session - Building Professional Relations Workshop](#)
- *Baltimore Convention Center*
- - *Room 310*
- 04:00 PM - 07:00 PM
- [U.S. Canola Association Welcome Reception \(By Invitation Only\)](#)
- *Hyatt Regency Baltimore Inner Harbor*
- - *President Room*
- 06:00 PM - 07:00 PM
- [21 ASA and CSSA Opening Keynote](#)
- *Baltimore Convention Center*
- - *Ballroom I-II*
- 07:00 PM - 09:00 PM
- [Exhibits & Career Center Open](#)
- *Baltimore Convention Center*
- - *Exhibit Hall A-C*
- [Graduate School Forum](#)
- *Baltimore Convention Center*
- - *Exhibit Hall A-C*
- [Opening Reception](#)
- *Baltimore Convention Center*
- - *Exhibit Hall A-C*
- 08:00 PM - 09:00 PM
- [22 SASES Elections](#)
- *Baltimore Convention Center*
- - *Room 314 & 315*
- 08:30 PM - 09:15 PM
- [Publishing Reception 2018](#)
- *Baltimore Convention Center*
- - *Charles Lobby VIP Suite*
- 09:15 PM - 11:00 PM
- [23 SASES Quiz Bowl Contest](#)
- *Baltimore Convention Center*
- - *Room 314 & 315*



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- MONDAY, NOVEMBER 05, 2018
- 07:00 AM - 09:00 AM
- **24 ASA Breakfast, Awards, and Plenary (E.T. & Vam York Distinguished ASA Lectureship)**
- *Hyatt Regency Baltimore Inner Harbor*
- - *Constellation Ballroom AB*
- 07:00 AM - 06:00 PM
- **25 Extension Materials on Display**
- *Baltimore Convention Center*
- - *Exhibit Hall A-C*
- 07:55 AM - 09:00 AM
- **26 Forage and Grazinglands Oral I**
- *Baltimore Convention Center*
- - *Room 314*
- 07:55 AM - 09:45 AM
- **27 Golf Turf Management I: Cultural Practices, Physiology, and Water Oral (Includes Student Competition)**
- *Baltimore Convention Center*
- - *Room 327*
- **28 Molecular Techniques, Genetics and Plant Breeding I: Cool- and Warm-Season Turf Oral**
- *Baltimore Convention Center*
- - *Room 328*
- 08:00 AM - 09:30 AM
- **29 SASES Club Presidents' Round Table**
- *Baltimore Convention Center*
- - *Room 310*
- 08:00 AM - 09:50 AM
- **30 Symposium--Canola Oil and Nutrition**
- *Baltimore Convention Center*
- - *Room 321*
- 08:00 AM - 10:00 AM
- **31 Symposium--Use of Field-Level Data for Increasing on-Farm Yields and Input-Use Efficiency**
- *Baltimore Convention Center*
- - *Room 316*
- 08:00 AM - 10:10 AM



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- **32 Plant Genetic Resources Oral**
- *Baltimore Convention Center*
- - Room 335
- 08:00 AM - 12:05 PM
- **33 Crop Breeding and Genetics Oral I**
- *Baltimore Convention Center*
- - Room 326
- 08:40 AM - 11:55 AM
- **34 Crop Physiology and Metabolism Oral I**
- *Baltimore Convention Center*
- - Room 313
- 09:00 AM - 10:00 AM
- **35 SASES Speech Contest - Finals I**
- *Baltimore Convention Center*
- - Room 320
- 09:00 AM - 06:00 PM
- **Exhibits & Career Center Open**
- *Baltimore Convention Center*
- - Exhibit Hall A-C
- **Graduate School Forum**
- *Baltimore Convention Center*
- - Exhibit Hall A-C
- 09:10 AM - 12:00 PM
- **36 Robert F. Barnes Ph.D. Oral Contest**
- *Baltimore Convention Center*
- - Room 314
- 09:20 AM - 12:05 PM
- **37 Development of Tools for Precision Agriculture Oral I (includes student competition)**
- *Baltimore Convention Center*
- - Room 330
- **38 Remote Sensing - Guiding Nutrient Management Practices in the Right Direction Oral (includes student competition)**
- *Baltimore Convention Center*
- - Room 334



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- 09:30 AM - 11:00 AM
- [39 Tips from the Experts on the Job Application and Interviewing Process](#)
- *Baltimore Convention Center*
- - Room 301
- 09:30 AM - 11:30 AM
- [40 Symposium--Soil Nutrient Dynamics, Cycling, and Availability in Organic Systems](#)
- *Baltimore Convention Center*
- - Room 315
- [41 Symposium--Statistical Practice in Agricultural Research with Case Studies](#)
- *Baltimore Convention Center*
- - Room 329
- [42 Symposium--the Modeling Road Less Travelled - Alternative Paradigms for Crop Modeling](#)
- *Baltimore Convention Center*
- - Room 325
- 09:30 AM - 11:35 AM
- [43 Symposium--Effects of Soil Health Management Practices on Soil-Plant-Water Relations in a Changing Climate](#)
- *Baltimore Convention Center*
- - Room 324
- 09:30 AM - 11:45 AM
- [44 Agronomic Production Systems Oral \(General\)](#)
- *Baltimore Convention Center*
- - Room 319
- 09:30 AM - 12:00 PM
- [Yes You Can: Video 101 for Scientists](#)
- *Hyatt Regency Baltimore Inner Harbor*
- - Calvert & Pratt
- 09:30 AM - 12:05 PM
- [45 Soil Fertility, Plant Nutrition, and Soil/Plant Analysis Ph.D. Oral I \(includes student competition\)](#)
- *Baltimore Convention Center*
- - Room 332
- [46 Cover Crop Management Oral I \(includes student competition\)](#)
- *Baltimore Convention Center*
- - Room 302



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- 09:30 AM - 12:30 PM
- [Baltimore City Tour](#)
- *Baltimore Convention Center*

- - *Charles Street Entrance*

- 09:35 AM - 11:35 AM
- [47 Symposium--Soil and Water Management for Irrigation Efficiency and Soil Sustainability in Connection with USDA-ARS & USDA-NIFA Project, Titled Sustaining Agriculture through Adaptive Management to Preserve the Ogallala Aquifer Under a Changing Climate.](#)
- *Baltimore Convention Center*

- - *Room 333*

- 09:40 AM - 11:45 AM
- [48 Nutrients and Environmental Quality General Oral I \(includes student competition\)](#)
- *Baltimore Convention Center*

- - *Room 323*

- 09:55 AM - 12:00 PM
- [49 Golf Turf Management II: Soil Chemical and Physical Properties, Water, and Biotic Stress Oral \(Includes Student Competition\)](#)
- *Baltimore Convention Center*

- - *Room 327*
- [50 Turf Environmental Science, Rhizosphere Ecology, and Water Oral](#)
- *Baltimore Convention Center*

- - *Room 328*

- 10:00 AM - 11:35 AM
- [51 Symposium--Collaborative Program to Advance Soil Health for Productivity, Economic and Environmental Benefits](#)
- *Baltimore Convention Center*

- - *Room 303*

- 10:00 AM - 11:55 AM
- [52 Symposium--World Canola Production](#)
- *Baltimore Convention Center*

- - *Room 321*

- 10:00 AM - 12:00 PM
- [53 CCA Career Accelerator Round Table](#)
- *Baltimore Convention Center*

- - *Room 310*
- [54 Grad School Workshop for Undergrads](#)
- *Baltimore Convention Center*



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- - Room 320
- AC315 Crop, Forage & Turfgrass Management Journal Editorial Board Meeting
- Baltimore Convention Center

- - Room 331
- Agronomic Science Foundation (ASF) Board of Directors Meeting
- Baltimore Convention Center

- - Charles Lobby VIP Suite
- 10:00 AM - 12:05 PM
- 55 Symposium--Frontiers in Plant Genome Editing
- Baltimore Convention Center

- - Room 317
- 10:05 AM - 04:00 PM
- 56 Symposium--Scaling of Sustainable Agricultural Intensification Practices
- Baltimore Convention Center

- - Room 322
- 10:15 AM - 11:05 AM
- 57 Poster and 5 Minute Rapid--Ph.D. Grad Student Oral (includes student competition)
- Baltimore Convention Center

- - Room 312
- 10:20 AM - 12:10 PM
- 58 Bioenergy Systems Oral I
- Baltimore Convention Center

- - Room 316
- 10:35 AM - 11:25 AM
- 59 By-Product Gypsum Uses in Agriculture Oral
- Baltimore Convention Center

- - Room 318
- 11:15 AM - 11:35 AM
- 60 Poster and 5 Minute Rapid--Crop Ecology, Management and Quality Oral
- Baltimore Convention Center

- - Room 312
- 11:25 AM - 11:40 AM
- 61 ASA Community Planning Session--By-product Gypsum Uses in Agriculture
- Baltimore Convention Center



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- - Room 318
 - 11:30 AM - 11:45 AM
 - **62 ASA Community Planning Session--Organic Management Systems**
- *Baltimore Convention Center*
- - Room 315
 - **63 ASA Community Planning Session--Statistical Education/Training for Researchers**
- *Baltimore Convention Center*
- - Room 329
 - 11:35 AM - 11:50 AM
 - **64 ASA Community Planning Session--Soil and Water Management Professionals**
- *Baltimore Convention Center*
- - Room 333
 - **65 ASA Community Planning Session--Soil-Plant-Water Relations**
- *Baltimore Convention Center*
- - Room 324
 - **66 ASA Community Planning Session--Soil Health**
- *Baltimore Convention Center*
- - Room 303
 - 11:35 AM - 11:55 AM
 - **67 5 Minute Rapid--Crop Ecology, Management and Quality Oral**
- *Baltimore Convention Center*
- - Room 312
 - 12:00 PM - 01:30 PM
 - **68 Pop with the Presidents**
- *Hyatt Regency Baltimore Inner Harbor*
- - Constellation Ballroom A
 - **69 SASES Advisor Luncheon**
- *Hyatt Regency Baltimore Inner Harbor*
- - Conway Room
 - 01:00 PM - 02:00 PM
 - **C302 Crop Science Journal TE Meeting**
- *Baltimore Convention Center*
- - Room 331
 - 01:15 PM - 04:50 PM



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- **70** Soil Fertility, Plant Nutrition, and Soil/Plant Analysis M.S. Oral (includes student competition)
- *Baltimore Convention Center*
- - Room 332
- 01:25 PM - 03:45 PM
- **71** Molecular Techniques, Genetics and Plant Breeding II: Abiotic and Biotic Stress Oral (Includes Student Competition)
- *Baltimore Convention Center*
- - Room 315
- 01:30 PM - 02:10 PM
- **72** 5 Minute Rapid--Forage and Grazinglands Oral
- *Baltimore Convention Center*
- - Room 319
- 01:30 PM - 02:30 PM
- **73** Calvin Sperling Memorial Biodiversity Lectureship
- *Baltimore Convention Center*
- - Room 328
- 01:30 PM - 02:55 PM
- **74** Canola Agronomy Oral - Spring Canola
- *Baltimore Convention Center*
- - Room 321
- 01:30 PM - 03:00 PM
- **75** Career Path Opportunities for Students, Post-Docs, and Early Career Members
- *Baltimore Convention Center*
- - Room 307 & 308
- 01:30 PM - 03:15 PM
- **76** Symposium--Food-Energy-Water Nexus Approach for Climate Change Mitigation and Adaptation
- *Baltimore Convention Center*
- - Room 325
- **BreedingGames**
- *Baltimore Convention Center*
- - Room 310
- 01:30 PM - 03:20 PM
- **77** Nutrients and Environmental Quality General Oral II (includes student competition)
- *Baltimore Convention Center*



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- - Room 323
 - 01:30 PM - 03:30 PM
 - **78 SASES Crops Judging Showcase Contest**
- Baltimore Convention Center
- - Room 309
 - **79 Symposium--Design Optimization in Field Experiments**
- Baltimore Convention Center
- - Room 326
 - **80 Symposium--the Future of Sensors in Irrigation Water Management - R & D Tools to Practical Use**
- Baltimore Convention Center
- - Room 324
 - **81 Extension and Education in Agronomy Oral**
- Baltimore Convention Center
- - Room 334
 - **NCSRP 2018-2021 Benchmarking Team Meeting**
- Baltimore Convention Center
- - Charles Lobby VIP Suite
 - 01:30 PM - 04:00 PM
 - **82 Crop Physiology and Metabolism Oral II**
- Baltimore Convention Center
- - Room 313
 - 01:30 PM - 04:20 PM
 - **83 Soil Fertility, Plant Nutrition, and Soil/Plant Analysis Ph.D. Oral II (includes student competition)**
- Baltimore Convention Center
- - Room 333
 - **84 Cover Crop Management Oral II (includes student competition)**
- Baltimore Convention Center
- - Room 302
 - 01:30 PM - 04:25 PM
 - **85 Development of Tools for Precision Agriculture Oral II (includes student competition)**
- Baltimore Convention Center
- - Room 330
 - 01:45 PM - 03:50 PM



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- **86 Symposium--Smallholders Managing Soil Health for Climate Resilience**
- *Baltimore Convention Center*
- - Room 320
- 02:00 PM - 03:00 PM
- **C302 Crop Science Journal Editorial Board Meeting**
- *Baltimore Convention Center*
- - Room 331
- 02:00 PM - 04:00 PM
- **87 Special Session Symposium--Planning for a Purposeful Retirement**
- *Baltimore Convention Center*
- - Room 301
- **USDA-ARS All Hands Meeting**
- *Baltimore Convention Center*
- - Room 316
- 02:05 PM - 03:45 PM
- **88 Symposium--the Use of Thermal Imaging across Scales and Applications**
- *Baltimore Convention Center*
- - Room 327
- 02:25 PM - 03:45 PM
- **89 Forage and Grazinglands Oral II**
- *Baltimore Convention Center*
- - Room 319
- 03:00 PM - 03:40 PM
- **90 Poster and 5 Minute Rapid--Plant Genetic Resources Oral**
- *Baltimore Convention Center*
- - Room 335
- 03:00 PM - 04:05 PM
- **91 Canola Agronomy Oral - Winter Canola**
- *Baltimore Convention Center*
- - Room 321
- 03:00 PM - 05:45 PM
- **92 Special Session--Turning Data into Knowledge: High-Resolution Data Generation, Automation, and Analysis Using Machine Learning and Incorporating Published Literature and Historic Data Using Machine Reading.**
- *Baltimore Convention Center*



**SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA**

- - Room 314
 - 03:00 PM - 06:00 PM
 - [93 Career Fair](#)
 - *Baltimore Convention Center*
- - Exhibit Hall A-C
 - 03:15 PM - 03:30 PM
 - [94 ASA Community Planning Session--Global Climate Change](#)
 - *Baltimore Convention Center*
- - Room 325
 - 03:30 PM - 03:45 PM
 - [95 ASA Community Planning Session--Sensor-based Water Management](#)
 - *Baltimore Convention Center*
- - Room 325
 - 03:30 PM - 04:30 PM
 - [AC318 Agrosystems, Geosciences & Environment](#)
 - *Baltimore Convention Center*
- - Room 331
 - 03:45 PM - 04:00 PM
 - [96 ASA Community Planning Session--Biophysical Measurements and Sensors](#)
 - *Baltimore Convention Center*
- - Room 327
 - 03:50 PM - 04:05 PM
 - [97 ASA Community Planning Session--Agronomic Solutions for Smallholders](#)
 - *Baltimore Convention Center*
- - Room 320
 - 04:00 PM - 05:00 PM
 - [Emeritus Membership Task Force meeting](#)
 - *Baltimore Convention Center*
- - Room 301
 - 04:00 PM - 06:00 PM
 - [98 SASES Undergraduate Research Contest - Poster I](#)
 - *Baltimore Convention Center*
- - Exhibit Hall A-C
 - [99 Federal Corner](#)
 - *Baltimore Convention Center*



SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA

- - Exhibit Hall A-C
- **100 Organic Management Systems Poster (includes student competition)**
- *Baltimore Convention Center*

- - Exhibit Hall A-C
- **101 Research and Development of Tools for Precision Agriculture Poster (includes student competition)**
- *Baltimore Convention Center*

- - Exhibit Hall A-C
- **102 Soil and Water Management for Irrigation Efficiency and Soil Sustainability Poster (includes student competition)**
- *Baltimore Convention Center*

- - Exhibit Hall A-C
- **103 Soil Fertility, Plant Nutrition, and Soil/Plant Analysis M.S. Poster (includes student competition)**
- *Baltimore Convention Center*

- - Exhibit Hall A-C
- **104 Soil Fertility, Plant Nutrition, and Soil/Plant Analysis Ph.D. Poster (includes student competition)**
- *Baltimore Convention Center*

- - Exhibit Hall A-C
- **105 Global Climate Change and AgMIP: More Recent Observations and Adaptations Poster (includes student competition)**
- *Baltimore Convention Center*

- - Exhibit Hall A-C
- **106 How Can Field Research and Measurements Improve Modeling of Site-Specific Soil and Plant Processes? Poster (includes student competition)**
- *Baltimore Convention Center*

- - Exhibit Hall A-C
- **107 Sensor-Based Water Management Poster (includes student competition)**
- *Baltimore Convention Center*

- - Exhibit Hall A-C
- **108 The Internship Experience: My Summer as an Intern Poster (includes student competition)**
- *Baltimore Convention Center*

- - Exhibit Hall A-C
- **109 Agronomic and Environmental Applications of Biochar Poster (includes student competition)**
- *Baltimore Convention Center*



SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA

- - Exhibit Hall A-C
 - **110** Soil Carbon and Greenhouse Gas Emission General Poster (includes student competition)
 - Baltimore Convention Center
-
- - Exhibit Hall A-C
 - **111** Exploring G x E x M Synergies in World-Wide Wheat Production and the Opportunities for International Collaboration Poster (includes student competition)
 - Baltimore Convention Center
-
- - Exhibit Hall A-C
 - **112** Canola Research Poster
 - Baltimore Convention Center
-
- - Exhibit Hall A-C
 - **113** C-2 Graduate Student Poster Competition
 - Baltimore Convention Center
-
- - Exhibit Hall A-C
 - **114** Crop Physiology and Metabolism Poster I
 - Baltimore Convention Center
-
- - Exhibit Hall A-C
 - **115** Crop Ecology, Management and Quality Poster I
 - Baltimore Convention Center
-
- - Exhibit Hall A-C
 - **116** Plant Protection in Turfgrass Ecosystems Poster (Includes Student Competition)
 - Baltimore Convention Center
-
- - Exhibit Hall A-C
 - **117** Forage and Grazinglands Poster I
 - Baltimore Convention Center
-
- - Exhibit Hall A-C
 - **118** Plant Genetic Resources Poster
 - Baltimore Convention Center
-
- - Exhibit Hall A-C
 - SASES Undergraduate Research Contest - Poster II
 - Baltimore Convention Center
-
- - Exhibit Hall A-C
 - SASES Undergraduate Research Contest - Poster III
 - Baltimore Convention Center
-
- - Exhibit Hall A-C
 - 04:30 PM - 05:30 PM
 - ACS330 Agricultural & Environmental Letters Journal Editorial Board Meeting



SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA

- *Baltimore Convention Center*
- - *Room 331*
 - 04:45 PM - 06:15 PM
 - [Broadening Participation in Plant and Agricultural Sciences](#)
- *Baltimore Convention Center*
- - *Room 333*
 - 05:00 PM - 06:30 PM
 - [Field to Market Research and Extension Opportunities](#)
- *Baltimore Convention Center*
- - *Room 330*
 - 05:00 PM - 07:00 PM
 - [Speciality Group of Nepalese Origin](#)
- *Baltimore Convention Center*
- - *Room 325*
 - 05:30 PM - 06:30 PM
 - [Association of Agricultural Scientists of Indian Origin \(AASIO\) Annual Meeting](#)
- *Baltimore Convention Center*
- - *Room 328*
 - 05:30 PM - 07:00 PM
 - [University of Arkansas Razorback Pigout](#)
- *Hyatt Regency Baltimore Inner Harbor*
- - *Constellation Ballroom F*
 - 05:30 PM - 07:30 PM
 - [Association of Chinese Soil & Plant Scientists in North America Annual Meeting](#)
- *Baltimore Convention Center*
- - *Room 324*
 - [Colorado State University Alumni Reception](#)
- *Hyatt Regency Baltimore Inner Harbor*
- - *President Room*
 - [University of Minnesota Mixer](#)
- *Hyatt Regency Baltimore Inner Harbor*
- - *Constellation Ballroom E*
 - 06:00 PM - 08:00 PM
 - [All Illinois Mixer](#)



**SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA**

- *Hyatt Regency Baltimore Inner Harbor*
- - *Constellation Ballroom C*
 - 06:00 PM - 09:30 PM
 - [SCRI Warm-Season Turfgrass Improvement Program](#)
- *Baltimore Convention Center*
- - *Charles Lobby VIP Suite*
 - 06:30 PM - 09:00 PM
 - [119 SASES Dinner Cruise](#)
- *Spirit of Baltimore, 561 Light St*
- 07:00 PM - 09:00 PM
- [CSA Christian Fellowship](#)
- *Baltimore Convention Center*
- - *Room 310*
 - 07:30 PM - 09:00 PM
 - [2019 Program Planning Meeting](#)
- *Baltimore Convention Center*
- - *Room 321*
 - 07:30 PM - 09:30 PM
 - [DSSAT Foundation Open Forum](#)
- *Baltimore Convention Center*
- - *Room 332*
- TUESDAY, NOVEMBER 06, 2018
- 06:30 AM - 07:30 AM
- [Yoga!](#)
- *Hyatt Regency Baltimore Inner Harbor*
- - *Conway Room*
 - 07:00 AM - 09:00 AM
 - [120 CSSA Breakfast, Awards, and Plenary \(Betty Klepper Endowed Lectureship\)](#)
- *Hyatt Regency Baltimore Inner Harbor*
- - *Constellation Ballroom AB*
 - 07:00 AM - 06:00 PM
 - [121 Extension Materials on Display II](#)
- *Baltimore Convention Center*
- - *Exhibit Hall A-C*



SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA

- 08:00 AM - 09:15 AM
- **122 Canola Agronomy Oral - Crossover Topics**
- *Baltimore Convention Center*
- - *Room 321*
- 08:00 AM - 09:45 AM
- **123 Symposium--Exploring G x E x M Synergies in World-Wide Wheat Production and the Opportunities for International Collaboration**
- *Baltimore Convention Center*
- - *Room 301*
- **124 Long Term Research: Successes and Challenges Oral**
- *Baltimore Convention Center*
- - *Room 323*
- 08:00 AM - 10:00 AM
- **125 Symposium--Exploring Alternative Cropping Systems to Enhance Sustainable Productivity and Food Quality in a Changing Climate**
- *Baltimore Convention Center*
- - *Room 314*
- 08:00 AM - 10:05 AM
- **126 Symposium--Enhancing Productivity and Profitability in a Changing Climate with Precision Agriculture**
- *Baltimore Convention Center*
- - *Room 317*
- 08:00 AM - 11:00 AM
- **127 Cover Crop Management Oral III (includes student competition)**
- *Baltimore Convention Center*
- - *Room 322*
- 08:00 AM - 11:05 AM
- **128 Building Soil Health with Cover Cropping and Crop Rotational Diversity Oral**
- *Baltimore Convention Center*
- - *Room 318*
- 08:00 AM - 11:10 AM
- **129 Nitrogen Oral I - Soil Fertility, Plant Nutrition, and Soil/Plant Analysis**
- *Baltimore Convention Center*
- - *Room 320*
- 08:00 AM - 12:05 PM
- **130 Applied Soybean Research Oral I (includes student competition)**



SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA

- *Baltimore Convention Center*
- - *Room 315*
 - 08:20 AM - 03:30 PM
 - **131** Special Session Symposium--Water, Soil, Crops and People in a Changing Climate: the Agronomic Legacy of Dr. B. A. Stewart
- *Baltimore Convention Center*
- - *Room 309*
 - 08:25 AM - 11:15 AM
 - **132** Sustainable Intensification for Improved Food Production and Environmental Quality Oral
- *Baltimore Convention Center*
- - *Room 333*
 - 08:25 AM - 11:45 AM
 - **133** Airborne and Satellite Remote Sensing General Oral (includes student competition)
- *Baltimore Convention Center*
- - *Room 328*
 - 08:30 AM - 10:35 AM
 - **134** Symposium--How Suitable Are Models to Reflect Spatially Variable Field Conditions?
- *Baltimore Convention Center*
- - *Room 325*
 - 08:30 AM - 11:55 AM
 - **135** Climatology and Modeling Oral
- *Baltimore Convention Center*
- - *Room 324*
 - 08:45 AM - 10:50 AM
 - **136** Symposium--Genome Data Management and Integration for Improved Breeding
- *Baltimore Convention Center*
- - *Room 308*
 - 09:00 AM - 11:40 AM
 - **137** Phosphorus and Potassium Oral - Soil Fertility, Plant Nutrition, and Soil/Plant Analysis
- *Baltimore Convention Center*
- - *Room 326*
 - 09:00 AM - 12:00 PM
 - **Increasing Sustainable Productivity for Smallholder Farms in Challenging Climates**
- *Baltimore Convention Center*



**SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA**

- - Room 329
 - 09:00 AM - 12:30 PM
 - **138** Special Session--From Field Research to on-Farm Application to Public Policy: CCA Opportunities in 4R Nutrient Management
 - Baltimore Convention Center
- - Room 331
 - 09:00 AM - 06:00 PM
 - Exhibits & Career Center Open
 - Baltimore Convention Center
- - Exhibit Hall A-C
 - Graduate School Forum
 - Baltimore Convention Center
- - Exhibit Hall A-C
 - 09:15 AM - 10:15 AM
 - Symposium--Emeritus Member Networking Roundtable
 - Baltimore Convention Center
- - Exhibit Hall A-C
 - 09:20 AM - 12:05 PM
 - **139** Crop Ecology, Management and Quality Oral I
 - Baltimore Convention Center
- - Room 312
 - **140** Applied Pest Management: Diseases and Weeds (Includes Student Competition)
 - Baltimore Convention Center
- - Room 307
 - 09:25 AM - 12:00 PM
 - **141** Agronomic Management of Nutrients & Fertilizers Oral I
 - Baltimore Convention Center
- - Room 330
 - **142** Turf Ecology and Management I: Physiology, Irrigation, and Abiotic Stress Oral (Includes Student Competition)
 - Baltimore Convention Center
- - Room 310
 - 09:30 AM - 09:45 AM
 - **143** ASA Community Planning Session--K-16 Education and Outreach
 - Baltimore Convention Center



SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA

- - Room 319
 - 09:30 AM - 10:45 AM
 - **144 Seed Physiology, Production and Technology Oral**
 - *Baltimore Convention Center*
- - Room 303
 - 09:30 AM - 10:55 AM
 - **145 Environmental Impacts of Animal Agriculture Oral**
 - *Baltimore Convention Center*
- - Room 334
 - 09:30 AM - 11:20 AM
 - **146 Canola Breeding and Genetics Oral**
 - *Baltimore Convention Center*
- - Room 321
 - 09:30 AM - 11:35 AM
 - **147 Symposium--Advances in Parameterization and Evaluation of ET Predictions in Crop and Hydrologic Models for Decision Support**
 - *Baltimore Convention Center*
- - Room 316
 - **148 From Field to Stream: Strategies to Remove Nutrients from Subsurface Drainage Oral**
 - *Baltimore Convention Center*
- - Room 332
 - 09:30 AM - 11:45 AM
 - **149 Biometry and Statistical Computing Oral**
 - *Baltimore Convention Center*
- - Room 313
 - 09:45 AM - 10:00 AM
 - **150 ASA Community Planning Session--Advancing Agronomy via Public-Private Collaboration**
 - *Baltimore Convention Center*
- - Room 319
 - **151 ASA Community Planning Session--Wheat Initiative Agronomists**
 - *Baltimore Convention Center*
- - Room 301
 - 09:45 AM - 11:50 AM
 - **152 Symposium--Heat Stress**
 - *Baltimore Convention Center*



**SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA**

- - Room 302
 - 09:55 AM - 12:00 PM
 - **153** Symposium--Oilseed Crops for Biofuel Feedstocks: Production Systems, Prospects and Challenges.
 - *Baltimore Convention Center*
- - Room 327
 - 10:00 AM - 10:15 AM
 - **154** ASA Community Planning Session--Solar Corridor Crop System
 - *Baltimore Convention Center*
- - Room 314
 - 10:00 AM - 11:00 AM
 - **155** Teaching and Outreach Materials on Display
 - *Baltimore Convention Center*
- - Exhibit Hall A-C
 - 10:00 AM - 11:30 AM
 - **AC K-12 Committee Meeting**
 - *Hyatt Regency Baltimore Inner Harbor*
- - Executive Boardroom
 - 10:00 AM - 11:45 AM
 - **156** Symposium--Lessons Learned from on-Farm Studies
 - *Baltimore Convention Center*
- - Room 319
 - 10:00 AM - 11:50 AM
 - **157** Nutrient Management and Water Quality Oral (includes student competition)
 - *Baltimore Convention Center*
- - Room 335
 - 10:00 AM - 12:00 PM
 - **158** Special Session--ACS528 - Diversity Student Poster Competition
 - *Baltimore Convention Center*
- - Exhibit Hall A-C
 - 10:05 AM - 10:20 AM
 - **159** ASA Community Planning Session--Precision Agriculture Systems
 - *Baltimore Convention Center*
- - Room 317



SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA

- 10:10 AM - 12:00 PM
- **160** Exploring G x E x M Synergies in World-Wide Wheat Production and the Opportunities for International Collaboration Oral
- *Baltimore Convention Center*
- - Room 301
- 10:25 AM - 12:00 PM
- **161** Global Climate Change: More Recent Observations and Adaptations Oral I (includes student competition)
- *Baltimore Convention Center*
- - Room 323
- 10:30 AM - 12:30 PM
- **Soil and Plant Analysis Council**
- *Baltimore Convention Center*
- - Charles Lobby VIP Suite
- 10:35 AM - 10:50 AM
- **162** ASA Community Planning Session--Model Applications in Field Research
- *Baltimore Convention Center*
- - Room 325
- 10:55 AM - 11:10 AM
- **163** ASA Community Planning Session--Animal Agriculture and the Environment
- *Baltimore Convention Center*
- - Room 334
- 11:00 AM - 12:00 PM
- **164** CSSA Business Meeting--Seed Physiology, Production and Technology
- *Baltimore Convention Center*
- - Room 303
- **165** Ron Phillips Plant Genetics Lectureship
- *Baltimore Convention Center*
- - Room 308
- 11:10 AM - 12:05 PM
- **166** Poster and 5 Minute Rapid--Cover Crop Management Oral (includes student competition)
- *Baltimore Convention Center*
- - Room 322
- 11:15 AM - 11:30 AM
- **167** ASA Community Planning Session--Sustainable Intensification
- *Baltimore Convention Center*



SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA

- - Room 333
 - 11:35 AM - 11:50 AM
 - **168 ASA Community Planning Session--Evapotranspiration Measurement and Modeling**
- Baltimore Convention Center
- - Room 316
 - **169 ASA Community Planning Session--Managing Denitrification in Agronomic Systems**
- Baltimore Convention Center
- - Room 333
 - 11:45 AM - 12:00 PM
 - **170 ASA Community Planning Session--Extension Education**
- Baltimore Convention Center
- - Room 319
 - 11:50 AM - 12:05 PM
 - **171 ASA Community Planning Session--Nutrient Management Professionals**
- Baltimore Convention Center
- - Room 335
 - 12:00 PM - 12:15 PM
 - **172 ASA Community Planning Session--Bioenergy Systems**
- Baltimore Convention Center
- - Room 327
 - 12:00 PM - 01:30 PM
 - **173 Special Session Symposium--Science Policy Graduate Student Luncheon**
- Hyatt Regency Baltimore Inner Harbor
- - Constellation Ballroom A
 - 12:00 PM - 02:00 PM
 - **Golden Opportunity & Greenfield Scholars Lunch and Program**
- Hyatt Regency Baltimore Inner Harbor
- - Constellation Ballroom B
 - 12:00 PM - 05:00 PM
 - **U.S. Canola Association Executive Committee Meeting (By Invitation Only)**
- Hyatt Regency Baltimore Inner Harbor
- - Chesapeake AB
 - 01:00 PM - 03:00 PM
 - **Generation Image: Photography 101 for Communicating Science & Research**



SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA

- *Baltimore Convention Center*
- - *Room 301*
 - 01:25 PM - 03:00 PM
 - **174 Turfgrass Pest Management: Weed Science and Plant Pathology**
- *Baltimore Convention Center*
- - *Room 316*
 - 01:25 PM - 03:45 PM
 - **175 Turf Ecology and Management II: Soil, Water, Plant Nutrition, and Biotic Stress (Includes Student Competition)**
- *Baltimore Convention Center*
- - *Room 317*
 - 01:30 PM - 02:05 PM
 - **176 Tropical Legumes Oral (includes student competition)**
- *Hyatt Regency Baltimore Inner Harbor*
- - *Douglass*
 - 01:30 PM - 02:30 PM
 - **177 5 Minute Rapid--Agronomic Production Systems Oral**
- *Baltimore Convention Center*
- - *Room 318*
 - 01:30 PM - 02:50 PM
 - **178 Organic Management Systems Oral I**
- *Baltimore Convention Center*
- - *Room 323*
 - 01:30 PM - 02:55 PM
 - **179 Symposium--Scaling-up Research for Enhancing Smallholder Farmer Productivity**
- *Baltimore Convention Center*
- - *Room 313*
 - 01:30 PM - 03:25 PM
 - **180 Agronomy in Africa Oral**
- *Baltimore Convention Center*
- - *Room 312*
 - 01:30 PM - 03:30 PM
 - **181 Interactive Workshop: Writing Manuscripts for Publication**
- *Baltimore Convention Center*



SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA

- - Room 329
- **182** Symposium--Statistical Approaches for on-Farm Data and Experiments Round Table
- *Baltimore Convention Center*

- - Room 302
- **183** Symposium--Dynamics of Forage and Grazinglands Systems in a Changing Climate
- *Baltimore Convention Center*

- - Room 303
- **184** Symposium--Crop Wild Relatives and Genetic Resources for Interesting Traits
- *Baltimore Convention Center*

- - Room 324
- 01:30 PM - 03:35 PM
- **185** Global Climate Change: More Recent Observations and Adaptations Oral II (includes student competition)
- *Baltimore Convention Center*

- - Room 319
- 01:30 PM - 03:45 PM
- **186** Genome Data Management, Genome Mapping, and Genomics-Assisted Breeding Oral
- *Baltimore Convention Center*

- - Room 327
- 01:30 PM - 03:50 PM
- **187** Agronomic Management of Nutrients & Fertilizers Oral II
- *Baltimore Convention Center*

- - Room 332
- **188** Environmental Quality Oral
- *Baltimore Convention Center*

- - Room 334
- 01:30 PM - 04:00 PM
- **189** Measurement and Modeling of Evapotranspiration and Its Practical Applications Oral (includes student competition)
- *Baltimore Convention Center*

- - Room 320
- **190** Crop Physiology and Metabolism Oral III
- *Baltimore Convention Center*

- - Room 330
- 01:30 PM - 04:05 PM
- **191** Recent Trends in Addressing Knowledge Gaps in Crop Modeling Oral



SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA

- *Hyatt Regency Baltimore Inner Harbor*
- - *Calvert & Pratt*
 - 01:30 PM - 04:10 PM
 - **192 Applied Soybean Research Oral II** (includes student competition)
- *Baltimore Convention Center*
- - *Room 328*
 - **193 General Oral - Soil Fertility, Plant Nutrition, and Soil/Plant Analysis**
- *Baltimore Convention Center*
- - *Room 322*
 - **194 Climatology and Modeling Oral II**
- *Hyatt Regency Baltimore Inner Harbor*
- - *Lombard & Camden*
 - 01:30 PM - 04:20 PM
 - **195 Soil Carbon and Greenhouse Gas Emissions General Oral**
- *Baltimore Convention Center*
- - *Room 333*
 - 01:30 PM - 04:30 PM
 - **196 Symposium--Special Session Symposium--Developing Protocols for Field-Scale Evaluation of Biostimulants and Biofertilizers**
- *Baltimore Convention Center*
- - *Room 307*
 - 01:30 PM - 04:45 PM
 - **197 Agronomic Production Systems Oral (Specialty Crops)**
- *Baltimore Convention Center*
- - *Room 325*
 - 01:45 PM - 02:00 PM
 - **198 ASA Community Planning Session--Crop Irrigation Strategies and Management**
- *Baltimore Convention Center*
- - *Room 335*
 - 02:00 PM - 04:00 PM
 - **199 Symposium--Maintaining Seed Quality and Composition for Yield Productivity**
- *Baltimore Convention Center*
- - *Room 326*
 - **200 Symposium: Sustainable Urban and Suburban Landscape Management Practices in Response to Nutrient and Stormwater Restrictions within the Chesapeake Bay Watershed**



SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA

- *Baltimore Convention Center*
- - *Room 308*
 - 02:00 PM - 04:30 PM
 - [Women in Science Workshop -- Perspectives on Leadership Development for Women As Change Agents.](#)
- *Baltimore Convention Center*
- - *Room 310*
 - 02:05 PM - 02:20 PM
 - [201 ASA Community Planning Session--Tropical Legumes](#)
- *Hyatt Regency Baltimore Inner Harbor*
- - *Douglass*
 - 02:15 PM - 02:30 PM
 - [202 ASA Community Planning Session--Crop Management Professionals](#)
- *Baltimore Convention Center*
- - *Room 335*
 - 02:30 PM - 03:00 PM
 - [A302 Agronomy Journal New AE Training](#)
- *Baltimore Convention Center*
- - *Room 331*
 - 02:45 PM - 03:00 PM
 - [203 ASA Community Planning Session--Integrated Pest Management Professionals](#)
- *Baltimore Convention Center*
- - *Room 335*
 - 02:55 PM - 03:10 PM
 - [204 ASA Community Planning Session--Gaining Access to Agronomic Inputs](#)
- *Baltimore Convention Center*
- - *Room 313*
 - 03:00 PM - 04:00 PM
 - [CSSA Division Leadership Training](#)
- *Baltimore Convention Center*
- - *Room 323*
 - 03:00 PM - 05:00 PM
 - [A302 Agronomy Journal Editorial Board](#)
- *Baltimore Convention Center*



**SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA**

- - Room 331
 - 03:15 PM - 03:30 PM
 - **205 ASA Community Planning Session--Professional Applied Agronomists**
 - *Baltimore Convention Center*
- - Room 335
 - 03:25 PM - 03:40 PM
 - **206 ASA Community Planning Session--Agronomy in Africa**
 - *Baltimore Convention Center*
- - Room 312
 - 03:30 PM - 03:45 PM
 - **207 ASA Community Planning Session--Semi-Arid Dryland Cropping Systems**
 - *Baltimore Convention Center*
- - Room 318
 - **208 ASA Community Planning Session--Spatial Statistics and On-Farm Research**
 - *Baltimore Convention Center*
- - Room 302
 - 03:40 PM - 04:40 PM
 - **294 CSSA Business Meeting--Forage and Grazinglands**
 - *Baltimore Convention Center*
- - Room 301
 - 03:45 PM - 04:00 PM
 - **209 ASA Community Planning Session--Weedy and Invasive Plant Species**
 - *Baltimore Convention Center*
- - Room 335
 - **210 ASA Community Planning Session--Social Media in Education/Extension**
 - *Baltimore Convention Center*
- - Room 303
 - 03:45 PM - 04:30 PM
 - **211 CSSA Business Meeting--Plant Genetic Resources**
 - *Baltimore Convention Center*
- - Room 324
 - 04:00 PM - 04:15 PM
 - **212 ASA Community Planning Session--Cotton and Other Fiber Crops**
 - *Baltimore Convention Center*



SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA

- - Room 335
 - 04:00 PM - 05:00 PM
 - **213** Soil Fertility, Plant Nutrition, and Soil/Plant Analysis--Division Updates and Student Awards
 - Baltimore Convention Center
- - Room 314
 - 04:00 PM - 05:45 PM
 - It's More Than Climate Change - Sustainability, Food Security and the Tri-Societies - a Round-Table Discussion
 - Baltimore Convention Center
- - Charles Lobby VIP Suite
 - 04:00 PM - 06:00 PM
 - **112** Canola Research Poster
 - Baltimore Convention Center
- - Exhibit Hall A-C
 - **214** Agronomic Production Systems Poster (Cover Crops; Soil Health; Livestock Feed)
 - Baltimore Convention Center
- - Exhibit Hall A-C
 - **215** Bioenergy Systems Research Poster (includes student competition)
 - Baltimore Convention Center
- - Exhibit Hall A-C
 - **216** Water, Soil, Crops, and People Poster (includes student competition)
 - Baltimore Convention Center
- - Exhibit Hall A-C
 - **217** Measurement and Modeling of Evapotranspiration and Its Practical Applications Poster (includes student competition)
 - Baltimore Convention Center
- - Exhibit Hall A-C
 - **218** Soil-Plant-Water Relations General Poster: Effects of Organic Additions, Cover Crops, Conservation Tillage and Diverse Rotations on Soil-Plant-Water Relations in Different Weather Conditions Poster (includes student competition)
 - Baltimore Convention Center
- - Exhibit Hall A-C
 - **219** K-16 Education and Outreach General Poster
 - Baltimore Convention Center
- - Exhibit Hall A-C
 - **220** Animal Agriculture and the Environment Poster (includes student competition)
 - Baltimore Convention Center



SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA

- - Exhibit Hall A-C
- **221 Nutrients and Environmental Quality General Poster (includes student competition)**
- *Baltimore Convention Center*

- - Exhibit Hall A-C
- **222 Perennial Grains Poster (includes student competition)**
- *Baltimore Convention Center*

- - Exhibit Hall A-C
- **223 Tropical Legumes Poster (includes student competition)**
- *Baltimore Convention Center*

- - Exhibit Hall A-C
- **224 Agricultural Management and Soil Health Poster (includes student competition)**
- *Baltimore Convention Center*

- - Exhibit Hall A-C
- **225 Cover Crop Management Poster**
- *Baltimore Convention Center*

- - Exhibit Hall A-C
- **226 Crop Breeding and Genetics General Poster (includes student competition)**
- *Baltimore Convention Center*

- - Exhibit Hall A-C
- **227 Crop Physiology and Metabolism Poster II**
- *Baltimore Convention Center*

- - Exhibit Hall A-C
- **228 M.S. Grad Student Poster (includes student competition)**
- *Baltimore Convention Center*

- - Exhibit Hall A-C
- **229 Seed Physiology, Production and Technology Poster**
- *Baltimore Convention Center*

- - Exhibit Hall A-C
- **230 Golf Turf Management Poster (Includes Student Competition)**
- *Baltimore Convention Center*

- - Exhibit Hall A-C
- **231 Turfgrass Management and Ecology Poster (Includes Student Competition)**
- *Baltimore Convention Center*

- - Exhibit Hall A-C
- **232 Turfgrass Science - I Poster**
- *Baltimore Convention Center*



**SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA**

- - Exhibit Hall A-C
- **233** Turf Physiology, Molecular Biology, and Genetics Poster (Includes Student Competition)
- *Baltimore Convention Center*

- - Exhibit Hall A-C
- **234** Robert F. Barnes M.S. Poster Contest
- *Baltimore Convention Center*

- - Exhibit Hall A-C
- 04:05 PM - 04:20 PM
- **235** ASA Community Planning Session--Agroclimatology and Agronomic Modeling
- *Hyatt Regency Baltimore Inner Harbor*

- - Calvert & Pratt
- 04:10 PM - 04:25 PM
- **236** ASA Community Planning Session--Applied Soybean Research
- *Baltimore Convention Center*

- - Room 328
- 04:30 PM - 06:00 PM
- **237** Protocols for Field-Scale Evaluation of Biostimulants and Biofertilizers Poster
- *Baltimore Convention Center*

- - Exhibit Hall A-C
- 04:35 PM - 04:50 PM
- **238** ASA Community Planning Session--Soil Carbon and Greenhouse Gas Emissions
- *Baltimore Convention Center*

- - Room 333
- 05:15 PM - 08:00 PM
- **239** Leo M. Walsh Soil Fertility Distinguished Lectureship
- *Baltimore Convention Center*

- - Room 314
- 05:30 PM - 07:00 PM
- **Landpks: A Mobile App for on-Farm Research and Extension**
- *Baltimore Convention Center*

- - Room 324
- 05:30 PM - 07:30 PM
- **ISU Mixer**
- *Hyatt Regency Baltimore Inner Harbor*



SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA

- - *Constellation Ballroom C*
 - 05:30 PM - 08:00 PM
 - [Kansas State University, Department of Agronomy "Purple Coat" Reception](#)
 - *Hyatt Regency Baltimore Inner Harbor*
- - *Constellation Ballroom E*
 - 06:30 PM - 08:30 PM
 - [University of Nebraska-Lincoln Department of Agronomy & Horticulture Big Red Mixer](#)
 - *Hyatt Regency Baltimore Inner Harbor*
- - *Constellation Ballroom D*
 - 07:00 PM - 08:30 PM
 - [240 ACS Graduate Student Committee Meeting](#)
 - *Hyatt Regency Baltimore Inner Harbor*
- - *Calvert & Pratt*
 - 07:00 PM - 09:00 PM
 - [Mid-term Election Watch Party](#)
 - *Pratt Street Ale House, 206 W Pratt St.*
 - [Movie Screening of "Thirsty Land"](#)
 - *Baltimore Convention Center*
- - *Room 309 & 310*
- WEDNESDAY, NOVEMBER 07, 2018
 - 07:00 AM - 08:10 AM
 - [241 Frank N. Meyer Medal for Plant Genetic Resources Breakfast and Award](#)
 - *Baltimore Convention Center*
- - *Room 327*
 - 07:00 AM - 04:30 PM
 - [242 Extension Materials on Display III](#)
 - *Baltimore Convention Center*
- - *Exhibit Hall A-C*
 - 07:30 AM - 07:50 AM
 - [243 Poster and 5 Minute Rapid--Turfgrass Science Oral](#)
 - *Baltimore Convention Center*
- - *Room 309*
 - 07:30 AM - 10:55 AM
 - [244 Megapodium--Cross-Cutting Issues in Environmental Quality](#)



SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA

- *Baltimore Convention Center*
- - *Room 314*
- 07:45 AM - 09:30 AM
- **245** Symposium--Remote Sensing - Guiding Nutrient Management Practices in the Right Direction
- *Baltimore Convention Center*
- - *Room 313*
- 07:45 AM - 09:45 AM
- **246** Symposium--Long-Term Cover Crop Research
- *Baltimore Convention Center*
- - *Room 316*
- 07:45 AM - 10:50 AM
- **247** Education and Extension Oral
- *Baltimore Convention Center*
- - *Room 330*
- 07:45 AM - 11:00 AM
- **248** Global Agronomy Oral
- *Baltimore Convention Center*
- - *Room 328*
- 07:50 AM - 08:20 AM
- **249** 5 Minute Rapid Session: Turfgrass Science Oral
- *Baltimore Convention Center*
- - *Room 309*
- 08:00 AM - 09:05 AM
- **250** Influence of Climate Change on Nutrient Losses Oral
- *Baltimore Convention Center*
- - *Room 312*
- 08:00 AM - 09:50 AM
- **251** Agronomic Production Systems Oral (Nutrient Management)
- *Baltimore Convention Center*
- - *Room 322*
- 08:00 AM - 10:00 AM
- **252** Symposium--Big Data Analytics in Plant Breeding
- *Baltimore Convention Center*



SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA

- - Room 319
 - 08:00 AM - 10:05 AM
 - **253** Symposium--Perennial Crops for Ecological Intensification of Agricultural Systems
 - Baltimore Convention Center
- - Room 325
 - 08:00 AM - 10:35 AM
 - **254** Crop Breeding and Genetics Oral II
 - Baltimore Convention Center
- - Room 310
 - 08:00 AM - 11:20 AM
 - **255** Agricultural Management and Soil Health Oral
 - Baltimore Convention Center
- - Room 318
 - 08:00 AM - 11:25 AM
 - **256** Nitrogen Oral II - Soil Fertility, Plant Nutrition, and Soil/Plant Analysis
 - Baltimore Convention Center
- - Room 302
 - 08:00 AM - 03:30 PM
 - Business Meeting--US Canola Association
 - Hyatt Regency Baltimore Inner Harbor
- - Chesapeake AB
 - 08:00 AM - 05:00 PM
 - Farming in the Chesapeake Bay Watershed Tour
 - Baltimore Convention Center
- - Charles Street Entrance
 - 08:10 AM - 11:30 AM
 - **257** Semi-Arid Dryland Cropping Systems Oral I
 - Baltimore Convention Center
- - Room 303
 - 08:30 AM - 09:25 AM
 - **258** Symposium--Managing Soil and Water Resources in a Changing Climate
 - Baltimore Convention Center
- - Room 335
 - 08:30 AM - 09:45 AM



**SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA**

- **259** Martin and Ruth Massengale Lectureship
- *Baltimore Convention Center*
- - Room 309
- 08:30 AM - 10:20 AM
- **260** Genomics, Molecular Genetics, and Biotechnology Oral
- *Baltimore Convention Center*
- - Room 323
- 08:30 AM - 12:00 PM
- **Fruit and Vegetable Supply Chain Project**
- *Hyatt Regency Baltimore Inner Harbor*
- - Conway Room
- 08:45 AM - 09:45 AM
- **261** Communicating Your Science: Messaging for a Greater Impact Workshop
- *Baltimore Convention Center*
- - Room 301
- 08:50 AM - 10:30 AM
- **263** Symposium--Healthy Soil, Healthy Plants, Healthy People
- *Baltimore Convention Center*
- - Room 307
- 09:00 AM - 10:30 AM
- **264** Biomedical, Health-Beneficial and Nutritionally Enhanced Plants Oral
- *Baltimore Convention Center*
- - Room 320
- 09:00 AM - 10:45 AM
- **265** Symposium--Future of Remote Sensing for Agriculture: How This Information Can be Effectively Used for Decision Making
- *Baltimore Convention Center*
- - Room 317
- 09:00 AM - 11:05 AM
- **266** Symposium--Landscape Genomics
- *Baltimore Convention Center*
- - Room 315
- 09:00 AM - 04:30 PM
- **Exhibits & Career Center Open**
- *Baltimore Convention Center*



**SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA**

- - Exhibit Hall A-C
- [Graduate School Forum](#)
- *Baltimore Convention Center*

- - Exhibit Hall A-C
- 09:05 AM - 09:20 AM
- [267 ASA Community Planning Session--Nutrients and Environmental Quality](#)
- *Baltimore Convention Center*

- - Room 312
- 09:25 AM - 09:40 AM
- [268 ASA Community Planning Session--US-Sino Agricultural Research Forum](#)
- *Baltimore Convention Center*

- - Room 335
- 09:30 AM - 09:45 AM
- [269 ASA Community Planning Session--Sensor-Based Nutrient Management](#)
- *Baltimore Convention Center*

- - Room 313
- 09:30 AM - 10:30 AM
- [A341 Crops & Soils Magazine Editorial Board Meeting](#)
- *Baltimore Convention Center*

- - Charles Lobby VIP Suite
- 09:30 AM - 10:50 AM
- [270 Beneficial, Unique and Puzzling Properties of Biochar: Propelling Our Knowledge of Biochar Forward Oral](#)
- *Baltimore Convention Center*

- - Room 312
- 09:30 AM - 11:00 AM
- [Science Not Silence: An Advocacy Workshop](#)
- *Baltimore Convention Center*

- - Room 329
- 09:30 AM - 11:30 AM
- [Communications 101 for Scientists: Relating in 2018](#)
- *Baltimore Convention Center*

- - Room 331
- 09:45 AM - 10:00 AM



SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA

- **271** ASA Community Planning Session--Cover Crop Management
- *Baltimore Convention Center*
- - Room 316
- 09:50 AM - 12:00 PM
- **272** CSSA Business Meeting: Turfgrass Science
- *Baltimore Convention Center*
- - Room 309
- 09:55 AM - 01:05 PM
- **273** Canadian Society of Agronomy Annual General Meeting, Awards & Recognition Luncheon
- *Baltimore Convention Center*
- - Room 327
- 10:00 AM - 10:15 AM
- **274** ASA Community Planning Session--Bioinformatics in Crops and Soils
- *Baltimore Convention Center*
- - Room 319
- 10:00 AM - 11:00 AM
- **ASA** Section and Community Feedback and Training Meeting
- *Baltimore Convention Center*
- - Room 334
- 10:00 AM - 11:30 AM
- **275** CSSA Business Meeting--Crop Ecology, Management and Quality
- *Baltimore Convention Center*
- - Room 333
- 10:00 AM - 11:45 AM
- **276** Grant Application Navigation and Resources for Expanding Early Career Opportunities
- *Baltimore Convention Center*
- - Room 301
- 10:00 AM - 12:00 PM
- **277** Symposium--Giants of Progress in Forage and Grazinglands Agronomy and Extension
- *Baltimore Convention Center*
- - Room 322
- 10:05 AM - 10:20 AM
- **278** ASA Community Planning Session--Perennial Grain Development
- *Baltimore Convention Center*



SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA

- - Room 325
 - 10:30 AM - 10:45 AM
 - **279 ASA Community Planning Session--Agricultural Experiment Station Management**
 - *Baltimore Convention Center*
- - Room 307
 - 10:30 AM - 11:30 AM
 - **280 CSSA Business Meeting--Biomedical, Health-Beneficial and Nutritionally Enhanced Plants**
 - *Baltimore Convention Center*
- - Room 320
 - 10:45 AM - 11:00 AM
 - **281 ASA Community Planning Session--Airborne and Satellite Remote Sensing**
 - *Baltimore Convention Center*
- - Room 317
 - 10:50 AM - 11:05 AM
 - **282 ASA Community Planning Session--Biochar: Agronomic and Environmental Uses**
 - *Baltimore Convention Center*
- - Room 312
 - 10:55 AM - 12:05 PM
 - **283 ASA Business Meeting--Agronomic Production Systems**
 - *Baltimore Convention Center*
- - Room 308
 - 11:00 AM - 12:00 PM
 - **284 ASA Business Meeting--Biometry and Statistical Computing**
 - *Baltimore Convention Center*
- - Room 319
 - **285 ASA Business Meeting--Climatology and Modeling**
 - *Baltimore Convention Center*
- - Room 317
 - **286 ASA Business Meeting--Education and Extension**
 - *Baltimore Convention Center*
- - Room 330
 - **287 ASA Business Meeting--Land Management and Conservation**
 - *Baltimore Convention Center*
- - Room 307
 - **288 CSSA Business Meeting--Joint Division C01 and C07**



**SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA**

- *Baltimore Convention Center*
- - Room 323
 - **289** [CSSA Business Meeting--Crop Physiology and Metabolism](#)
- *Baltimore Convention Center*
- - Room 324
 - 11:05 AM - 12:05 PM
 - **290** [ASA Business Meeting--Environmental Quality](#)
- *Baltimore Convention Center*
- - Room 314
 - [Women in Science Committee Meeting](#)
- *Baltimore Convention Center*
- - Charles Lobby VIP Suite
 - 11:10 AM - 12:00 PM
 - **291** [ASA Business Meeting--Global Agronomy](#)
- *Baltimore Convention Center*
- - Room 328
 - 11:20 AM - 12:05 PM
 - [Genetic Resources Collaboration and Networking](#)
- *Baltimore Convention Center*
- - Room 315
 - 12:00 PM - 01:00 PM
 - [ASA Community Stewardship and Review Committee \(A213\)](#)
- *Baltimore Convention Center*
- - Room 334
 - 12:00 PM - 02:00 PM
 - [David Montgomery Book Signing I](#)
- *Baltimore Convention Center*
- - Exhibit Hall A-C
 - 12:30 PM - 05:30 PM
 - [CTIC Board Meeting](#)
- *Baltimore Convention Center*
- - Charles Lobby VIP Suite
 - 01:15 PM - 02:20 PM
 - **292** [Nutrient Loss Trade-Offs in Agriculture and Conservation Oral](#)



SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA

- *Baltimore Convention Center*
- - Room 332
 - 01:30 PM - 02:05 PM
 - **293** Poster and 5 Minute Rapid--Crop Breeding and Genetics Oral
- *Baltimore Convention Center*
- - Room 324
 - 01:30 PM - 02:50 PM
 - **295** Organic Management Systems Oral II
- *Baltimore Convention Center*
- - Room 319
 - **296** Research and Development of Precision Agriculture Tools for Agriculture Sustainability Oral
- *Baltimore Convention Center*
- - Room 320
 - **297** How Can Field Research and Measurements Improve Modeling of Site-Specific Soil and Plant Processes? Oral
- *Baltimore Convention Center*
- - Room 330
 - **298** Professional Development for Today's Turf Graduate Students Oral
- *Baltimore Convention Center*
- - Room 328
 - 01:30 PM - 02:55 PM
 - **299** Secondary and Micronutrients Oral - Soil Fertility, Plant Nutrition, and Soil/Plant Analysis
- *Baltimore Convention Center*
- - Room 318
 - 01:30 PM - 03:10 PM
 - **300** Genome Editing, Molecular Genetics, and Biotechnology Oral
- *Baltimore Convention Center*
- - Room 315
 - 01:30 PM - 03:20 PM
 - **301** Bioenergy Systems Oral II
- *Baltimore Convention Center*
- - Room 316
 - **302** Regional Differences in Cover Crop Systems Oral
- *Baltimore Convention Center*



SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA

- - Room 322
 - 01:30 PM - 03:25 PM
 - **303** Effects of Organic Additions, Cover Crops, Conservation Tillage and Diverse Rotation on Soil-Plant-Water Relations in Different Climate Conditions Oral
 - *Baltimore Convention Center*
- - Room 313
 - 01:30 PM - 03:30 PM
 - **304** Germination Genomics Oral
 - *Baltimore Convention Center*
- - Room 333
 - 01:30 PM - 03:35 PM
 - **305** Special Session Symposium--Advances in the Use of Earth Observations for Crop Modeling and Monitoring for Food Security
 - *Baltimore Convention Center*
- - Room 321
 - **306** Forage and Grazinglands Oral III
 - *Baltimore Convention Center*
- - Room 329
 - 01:30 PM - 03:45 PM
 - **307** Agronomic Production Systems Oral (Corn)
 - *Baltimore Convention Center*
- - Room 317
 - 01:30 PM - 04:05 PM
 - **308** Turfgrass Science and Management: Soil, Plant Nutrition, and the Environment Oral
 - *Baltimore Convention Center*
- - Room 325
 - 01:30 PM - 04:15 PM
 - **309** Crop Physiology and Metabolism Oral IV
 - *Baltimore Convention Center*
- - Room 323
 - **310** Crop Ecology, Management and Quality Oral II
 - *Baltimore Convention Center*
- - Room 312
 - 01:40 PM - 03:30 PM
 - **311** Symposium--Germplasm Exchange and the Future of Plant Breeding
 - *Baltimore Convention Center*



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- - Room 314
 - 02:05 PM - 02:50 PM
 - **312 5 Minute Rapid--Crop Breeding and Genetics Oral**
 - *Baltimore Convention Center*
- - Room 324
 - 02:30 PM - 04:30 PM
 - **112 Canola Research Poster**
 - *Baltimore Convention Center*
- - Exhibit Hall A-C
 - **313 Agronomic Production Systems Poster (Cropping Systems)**
 - *Baltimore Convention Center*
- - Exhibit Hall A-C
 - **314 Agronomic Production Systems Poster (Nutrient Management)**
 - *Baltimore Convention Center*
- - Exhibit Hall A-C
 - **315 Applied Soybean Research Poster**
 - *Baltimore Convention Center*
- - Exhibit Hall A-C
 - **316 General Poster - Soil Fertility, Plant Nutrition, and Soil/Plant Analysis**
 - *Baltimore Convention Center*
- - Exhibit Hall A-C
 - **317 Nitrogen Poster - Soil Fertility, Plant Nutrition, and Soil/Plant Analysis**
 - *Baltimore Convention Center*
- - Exhibit Hall A-C
 - **318 Phosphorus Poster - Soil Fertility, Plant Nutrition, and Soil/Plant Analysis**
 - *Baltimore Convention Center*
- - Exhibit Hall A-C
 - **319 Potassium and Sulfur Poster - Soil Fertility, Plant Nutrition, and Soil/Plant Analysis**
 - *Baltimore Convention Center*
- - Exhibit Hall A-C
 - **320 Biometry and Statistical Computing Poster**
 - *Baltimore Convention Center*
- - Exhibit Hall A-C
 - **321 Climatology and Modeling Poster**
 - *Baltimore Convention Center*



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- - Exhibit Hall A-C
 - **322 Education and Extension Poster**
 - *Baltimore Convention Center*
-
- - Exhibit Hall A-C
 - **323 Extension and Education in Agronomy Poster**
 - *Baltimore Convention Center*
-
- - Exhibit Hall A-C
 - **324 Extension Materials on Display Poster**
 - *Baltimore Convention Center*
-
- - Exhibit Hall A-C
 - **325 Sustainable Intensification for Food Production and Environmental Quality Poster**
 - *Baltimore Convention Center*
-
- - Exhibit Hall A-C
 - **326 Symposium--Exploring Soil Health and Phosphorus Connections**
 - *Baltimore Convention Center*
-
- - Room 332
 - **327 Agronomy in Africa Poster**
 - *Baltimore Convention Center*
-
- - Exhibit Hall A-C
 - **328 Global Agronomy Poster**
 - *Baltimore Convention Center*
-
- - Exhibit Hall A-C
 - **329 Agricultural Management and Soil Health Poster**
 - *Baltimore Convention Center*
-
- - Exhibit Hall A-C
 - **330 Crop Breeding and Genetics Poster**
 - *Baltimore Convention Center*
-
- - Exhibit Hall A-C
 - **331 Crop Ecology, Management and Quality Poster II**
 - *Baltimore Convention Center*
-
- - Exhibit Hall A-C
 - **332 Turfgrass Science - II Poster**
 - *Baltimore Convention Center*
-
- - Exhibit Hall A-C
 - **333 Forage and Grazinglands Poster II**
 - *Baltimore Convention Center*



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- - *Exhibit Hall A-C*
- **334 Genomics, Molecular Genetics, and Biotechnology Poster**
- *Baltimore Convention Center*
- - *Exhibit Hall A-C*
- **335 Crop Wild Relatives and Landscape Genomics Poster**
- *Baltimore Convention Center*
- - *Exhibit Hall A-C*
- **336 Biomedical, Health-Beneficial and Nutritionally Enhanced Plants Poster**
- *Baltimore Convention Center*
- - *Exhibit Hall A-C*
- 04:30 PM - 05:00 PM
- **Closing Reception**
- *Baltimore Convention Center*
- - *Ballroom Foyer East*
- 05:00 PM - 06:00 PM
- **337 ASA and CSSA Closing Keynote**
- *Baltimore Convention Center*
- - *Ballroom I-II*
- 05:00 PM - 07:00 PM
- **SERA-17 Reception and Poster Session**
- *Hyatt Regency Baltimore Inner Harbor*
- - *Chesapeake AB*
- 06:15 PM - 07:30 PM
- **David Montgomery Book Signing II**
- *Baltimore Convention Center*
- - *Ballroom I-II*

Em meio às atividades do Congresso, foi realizada reunião com representantes da *American Society of Agronomy – ASA*, para iniciar as tratativas de aproximação institucional com o Confea.

3 – Relatório Técnico:

Dentre as palestras ocorridas durante os quatro dias de Congresso, a delegação teve a oportunidade de prestigiar algumas das quais foram proferidas por brasileiros, estudantes de mestrado, doutorado e pós-doutorado em universidades norte-americanas.



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Delegação com os palestrantes brasileiros (engenheira e engenheiros agrônomos estudantes de pós graduação nos Estados Unidos da América).

No dia 06 de novembro de 2018 foi realizada reunião com representantes da American Society of Agronomy, com vistas à prospecção de iniciativas conjuntas com vistas à implementação de programa de certificação profissional.



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Delegação brasileira com representantes da *American Society of Agronomy – ASA*. Da direita para a esquerda: Eng. Agr. Kléber Santos, Eng. Agr. João Bosco, Eng. Agr. Evandro Martins, Eng. Agr. Laércio Aires e Eng. Agr. Francisco Soares. Da esquerda para a direita: o presidente da ASA Gary M. Pierzynski, a diretora executiva da ASA Ellen G.M. Bergfeld e os diretores da ASA Elizabeth Guertal e Luther B. Smith.

“A *American Society of Agronomy – ASA* é uma sociedade científica e profissional internacional progressista que capacita cientistas, educadores e profissionais no desenvolvimento, disseminação e aplicação de soluções agronômicas para alimentar e sustentar o mundo.

Com sede em Madison, WI, a ASA congrega mais de 8.000 membros e mais de 14.000 profissionais certificados (*Certified Crop Advisers*) dedicados à agronomia. A ASA fornece informações sobre a produção agronômica, biometria e computação estatística, climatologia e modelagem, educação e extensão, qualidade ambiental, agronomia global e manejo e conservação da terra.

Fundada em 1907, a ASA apoia seus membros e profissionais certificados, fornecendo publicações de pesquisa revisadas por pares através da Biblioteca Digital, programas educacionais, certificações, reuniões e iniciativas de política científica por meio de um escritório em Washington, DC. Uma linha comum entre os programas e serviços da ASA é a disseminação e transferência de conhecimento científico para o avanço da profissão.

Por causa de seus interesses comuns, a ASA, a *Crop Science Society of America – CSSA* e a *Soil Science Society of America – SSSA* compartilham um relacionamento cooperativo. Cada organização é autônoma com seus próprios estatutos e conselhos de administração, sendo que a *Alliance of Crop, Soil, and Environmental Science Societies – ACSESS* apoia atividades, programas e projetos da ASA, CSSA e SSSA.”



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De acordo com as informações disponíveis no portal da ACSESS, em tradução livre “a ASA foi criada em 1907 com o objetivo principal de melhorar a conservação e promover o uso inteligente de recursos naturais para a produção de alimentos, rações e culturas de fibras, mantendo ou melhorando o meio ambiente.

A SSSA foi criada em 1936 para aumentar a conscientização, a divulgação e a educação sobre a ciência do solo. Seus membros também se concentram em outros interesses e aspectos do solo, incluindo física, química, microbiologia, fertilidade, morfologia, classificação e mineralogia.

A CSSA foi estabelecida em 1955. Os membros se dedicam à promoção do bem-estar público através do avanço da pesquisa, extensão e ensino das ciências das lavouras, juntamente com a melhoria, cultura, manejo e utilização das culturas.”

A ASA realiza a certificação profissional nas seguintes áreas do conhecimento agrônomo:

- **Certified Crop Adviser – CCA**

The Certified Crop Adviser (CCA) and Certified Professional Agronomist (CPAg) are the benchmarks of professionalism. The CCA certification was established in 1992 to provide a benchmark for practicing agronomy professionals in the United States and Canada.

Any adviser/consultant that spends the majority of their time advising growers or farm managers/operators on agronomic practices and can meet the standards of the program.

Certification is the standard by which professionals are judged. The purpose of a certification program is to protect the public and the profession. It is a voluntary professional enhancement to a person's career credentials. Farmers and employers prefer to work with Certified Crop Advisers (CCA) because CCAs have demonstrated they have the commitment, education, expertise, and experience to make a difference in a client's business.

Being certified adds credibility and shows that you are serious about what you do. When you become certified, you join more than 13,000 of your peers in the largest, most recognized agriculturally-oriented certification program in North America. This program's professional standards are widely respected by industry, academia, and government and are referenced in statutes. Once certified you are telling your clients, employer, and the public that you have gone above and beyond to ensure their success.



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- **Precision Agriculture Specialty (PASp) Certification**

The International Certified Crop Adviser (ICCA) Program developed the Precision Agriculture (PASp) Specialty Certification to meet the growing demand for qualified advisers with focused knowledge and skills in precision agriculture. The Precision Agriculture Specialty is an additional specialty certification that builds upon the basic components of the International CCA Certification, to demonstrate the Crop Adviser’s proficiency in working with the Precision Agriculture concepts/technology and building it into a holistic management model.

This specialty, like others within the CCA program falls under the five major pillars of a CCA’s knowledge, which include Nutrient Management (4R Nutrient Management Specialty), Soil and Water Management, Integrated Pest Management (Resistance Management Specialty), Crop Management (Sustainability Specialty), and Professional Development. Not all CCAs work extensively on precision agriculture, but focus on other aspects of crop advising. The PASp Specialty allows those CCAs who advise on precision agriculture to become more visible and recognized for their integrated systems thinking and approach. An individual must be a CCA before they can register for the precision agriculture exam.

- **Resistance Management Specialty (RMS) Certification**

The Resistance Management Specialty (RMS) is for CCAs who do Integrated Pest Management (IPM) and focus their work in crop protection. Not all CCAs work extensively on pest management, but focus on other aspects of crop advising. The RMS allows those CCAs who advise on pest management to become more visible and recognized for their integrated systems thinking and approach to avoid development of resistance or alleviate resistance problems in order to meet the need for improved environmental stewardship. It allows CCAs to prove their knowledge, advance their skills and draw awareness to their professional abilities. It should align with USDA-NRCS and US-EPA for pest management standards.

The ICCA Program developed the RMS Certification to meet the growing demand for qualified advisers with focused knowledge and skills in pest and resistance management. The RMS certification is an additional specialty certification that builds upon the basic components of the ICCA Certification, to demonstrate the Crop Adviser’s proficiency in working with the RM concept and building it into a holistic management model. This specialty, like others within the CCA program falls under one of the five major pillars of a CCA’s knowledge, which include Nutrient Management (4R Nutrient Management Specialty), Soil and Water Management, Integrated Pest Management (Resistance Management Specialty), Crop Management (Sustainability Specialty), and Professional Development.



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- ***Sustainability Specialty (SSp) Certification***

The purpose of implementing a Sustainability Specialty is to utilize CCAs to help farmers/producers to become better acquainted with and adopt/enhance/implement sustainability concepts, stewardship, and best management practices within their operations. CCAs are the single best influencers to work with local producers and help them adopt more sustainable crop production practices that will satisfy the future demands of the food industry and address demands from consumers for safe food, while protecting the environment and preserving natural resources.

Sustainability can sometimes be a misunderstood word as many people and organizations use it to describe different versions of agricultural production practices. Food companies and retail businesses are working towards becoming more sustainable and reinforcing it with publicly stated goals. These companies have realized that in order for them to achieve their sustainability goals the crop based resources and commodities they purchase also have to use sustainable production practices. They identified CCAs as the logical partner to help reach their objectives in working with the farmers on their agronomic production practices.

The ICCA Program partnered with and received funding from the United Soybean Board (USB) to develop the CCA – Sustainability Specialty Certification. A cross section of the agricultural community with sustainability experiences and interests came together to develop the performance standards that are available here. This specialty is in direct response to the demand by consumers on food companies and retail businesses to implement more sustainable production practices and to ensure to the consumer that the food they purchase is produced sustainably.

This is a great opportunity for CCAs who want to focus their work on sustainable agronomic production practices and help their farmer clients implement those practices. The specialty centers on advanced knowledge and skills beyond the ICCA performance standards. The specialty will help build awareness and provide recognition for those CCAs with the knowledge and skills. An individual must be a CCA before they can register for the sustainability exam.

- ***4R Nutrient Management Specialty (4R NMS) Certification***

The 4R NMS specialty is for CCAs who do nutrient management planning and focus their work in this area. It allows CCAs to prove their knowledge, advance their skills and draw awareness to their abilities. It should align with USDA-NRCS and state nutrient management standards.



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- **Certified Professional Agronomist – CPAg**

Certified Professional Agronomist (CPAg) is a qualified agronomy expert who has met the standards – exams, education, experience, and ethics - set by the American Society of Agronomy (ASA). Those holding the CPAg certification gain opportunities in employment and advancement, recognition with government agencies, and validation that one is qualified to practice – valuable when presenting credentials to current and future clients.

Any agronomist who advises growers on agronomic practices, conducts educational programs and /or does research in agronomy, manages other agronomists, or provides technical support to field agronomists and can meet the standards of the program should be certified.

Certification as a CPAg is based on being a CCA in good standing, a minimum of a B.S. degree in Agronomy, five years of experience (post degree) and five references. All applicants are reviewed by the Local Certifying Board which is appointed by the President of ASA.

- **Certified Professional Soil Scientist/Classifier - CPSS and CPSC**

Certification defines the profession through standards. These standards describe the knowledge, skills and conduct that clients, employers and government agencies can use to identify appropriate professionals. SSSA's Certified Professional Soil Scientist (CPSS) certification program sets and maintains the high standards that benefit you and your clients in your chosen career. It begins with a Bachelor's Degree with 5 years of soils experience and having at least 15.0 semester credits of soils coursework.

Earning certification brings you credibility, opportunity, motivation, ability, and validation. As a professional working in soil science, you care as much about serving your clients as you do about furthering your career. The CPSS or CST certification provides you with the tools you need to succeed in both areas.

An individual whose education, experience and career path is in some aspect of the soil science profession and can meet the standards of the program, including:

- *Soil science practitioners*
- *Educators and extension specialists*
- *Soil science researchers*
- *Government and academic scientists*
- *Soil scientists working in environmental, natural resource, or agronomic management companies*
- *Anyone required by the state to be certified as a CPSS or Certified Professional Soil Classifier (CPSC) when doing soil science work for land use evaluation (eg. septic systems or agricultural management plans).*



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4- Proposições/ Recomendações a serem aplicadas no Sistema pela experiência adquirida:

Assim sendo, sugerimos a continuidade das tratativas com vistas à assinatura de Acordo de Cooperação entre o Confea e a *American Society of Agronomy – ASA*, englobando as seguintes atividades conjuntas, além de outras de interesse recíproco que possam vir a ser implementadas futuramente:

- Intercâmbio de informações sobre a profissão agrônômica em cada país;
- Realização de eventos conjuntos;
- Incentivo ao intercâmbio de estudantes, profissionais e convidados;
- Intercâmbio de informações sobre eventos científicos e técnicos de interesse mútuo;
- Aconselhamento profissional mútuo, nas áreas técnicas e científicas, na medida em que for fornecido por cada organização aos seus próprios membros; e
- Iniciar um programa de certificação profissional específico entre a ASA, CSSA, SSSA e o Confea.

5 – Conclusão:

Vislumbramos como sendo de grande relevância a continuidade das tratativas para a assinatura de Acordo de Cooperação entre o Confea e a *American Society of Agronomy – ASA*.

Desta feita, nos termos do art. 6º da Resolução nº 1.009, de 17 de junho de 2005, apresentamos o presente relatório conjunto, com vistas à análise e decisão do Conselho Diretor do Confea.

Baltimore - EUA, 09 de novembro de 2018.

Eng. Agr. Evandro José Martins – Conselheiro Federal

Eng. Agr. Francisco Soares da Silva – Conselheiro Federal

Eng. Agr. João Bosco de Andrade Lima Filho – Conselheiro Federal

Eng. Ftal. Laércio Aires dos Santos – Conselheiro Federal

Eng. Agr. Kléber Souza dos Santos – Coordenador da Coordenadoria de Câmaras Especializadas de Agronomia - CCEAGRO

Eng. Agr. Flávio H. C. Bolzan – Assessor do Confea