



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. João Bosco de Andrade Lima Filho – Conselheiro Federal

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

2 – Dados dos objetivos da viagem:

Finalidade da viagem:

Participação na *International Annual Meeting of Soil Science Society of America* – Reunião Anual Internacional da Sociedade de Ciência do Solo da América, em San Diego – Califórnia, EUA, no período de 6 a 9 de janeiro de 2019.

Local:

San Diego - Califórnia

Entidade promotora do evento:

Soil Science Society of America - SSSA

Período:

06 a 09 de janeiro de 2019.

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



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e propostas havidas ao longo das duas últimas edições do Congresso Nacional de Profissionais – CNP:

7º Congresso Nacional de Profissionais (agosto de 2010):	
<i>PNS 54</i>	<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>
<i>PNS 55</i>	<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):	
<i>PNS 57</i>	<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>
<i>PNS 58</i>	<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>
<i>PNS 59</i>	<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>
<i>PNS</i>	<i>Propor a inserção internacional via aprimoramento dos</i>



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60	<i>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 80	<i>Celebração de convênios entre o Confea e órgãos competentes, visando 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>

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



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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.

- **Programação das atividades:** Anexo do presente relatório. O conteúdo das apresentações encontra-se disponível em: <https://scisoc.confex.com/scisoc/2019sssa/meetingapp.cgi/Paper/111332>

3 – Relatório Técnico:

Em meio às participações nas palestras da Convenção, cujo resumo encontra-se em anexo, no dia 08 de janeiro de 2019 foi realizada reunião com representantes da American Society of Agronomy, Crop Science Society of America - CSSA e Soil Science Society of America – SSSA, com vistas à assinatura de Acordo de Cooperação entre o Confea e as três entidades norte americanas:

AGREEMENT OF COOPERATION Between	ACORDO DE COOPERAÇÃO Entre
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<p>American Society of Agronomy (ASA)</p> <p>Crop Science Society of America (CSSA)</p> <p>Soil Science Society of America (SSSA)</p> <p>5585 Guilford Road Madison, WI 53711-5801 U.S.A.</p> <p>And</p> <p>Conselho Federal de Engenharia e Agronomia (CONFEA)</p> <p>SEPN 508 - Asa Norte Edifício Confea – Engenheiro Francisco Saturnino de Brito Filho Brasília - DF, 70740-541 Brazil</p>	<p>American Society of Agronomy (ASA)</p> <p>Crop Science Society of America (CSSA)</p> <p>Soil Science Society of America (SSSA)</p> <p>5585 Guilford Road Madison, WI 53711-5801 U.S.A.</p> <p>e</p> <p>Conselho Federal de Engenharia e Agronomia (CONFEA)</p> <p>SEPN 508 - Asa Norte Edifício Confea – Engenheiro Francisco Saturnino de Brito Filho Brasília - DF, 70740-541 Brazil</p>
<p>ASA, CSSA, SSSA and CONFEA have entered into this Agreement to facilitate the enhancement of the efforts of each organization to better serve the public and the agronomy profession in its own country.</p>	<p>A ASA, CSSA, SSSA e o CONFEA firmam este Acordo para facilitar o aprimoramento dos esforços de cada organização para melhor servir o público e a profissão de agronomia em seu próprio país.</p>
<p>The type of activities considered under this Agreement may include, but are not limited to, the list of such activities contained in items 1 through 6 of this Agreement.</p>	<p>As atividades consideradas no âmbito deste Acordo podem incluir, mas não se limitando, a lista de atividades contidas nos itens 1 a 6 deste Acordo.</p>
<p>This Agreement will become valid upon approval by the governing bodies of the above organizations and will have a fixed duration of three years.</p>	<p>Este Acordo se tornará válido após aprovação pelos órgãos diretivos das organizações acima e terá uma duração fixa de três anos.</p>
<p>It will be reviewed six months prior to the agreement termination date and will be automatically renewed for another three-year term if both</p>	<p>Ele será revisado seis meses antes da data de término e será automaticamente renovado por mais um prazo de três anos, se ambas as</p>



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organizations consider the Agreement to have been beneficial.	organizações considerarem que foi benéfico.
Should the Agreement be deemed not beneficial by either organization, it will be terminated. It may also be terminated at any time prior to the date of expiration upon six-month's written notice from either of the organizations.	Se o Acordo não for considerado benéfico por qualquer das organizações, podendo ser rescindido também a qualquer momento antes da data de expiração, mediante notificação por escrito, com pelo menos seis meses de antecedência oriunda de qualquer uma das organizações.
Amendments to the agreement may be made at any time but must be confirmed in writing by all organizations.	As alterações ao Acordo podem ser feitas a qualquer momento, mas devem ser confirmadas por escrito por ambas organizações.
Each organization will nominate one person or office to be the focal point for communication with regard to detailed plans of action to be undertaken under this Agreement.	Cada organização indicará uma pessoa ou escritório para ser o ponto focal para a comunicação com relação aos planos de ação detalhados a serem realizados sob este Acordo.
The fiscal details of specific programs proposed under this Agreement will be treated on a case-by-case basis, and the resultant financial plan must be approved by both organizations.	Os detalhes fiscais de programas específicos propostos sob este Acordo serão tratados caso a caso, e o plano financeiro resultante deve ser aprovado por ambas as organizações.
Activities contemplated under this agreement include, but are not limited to, the following:	As atividades contempladas sob este Acordo incluem, mas não se limitam a:
1. Exchange of information regarding the agronomy profession in general.	1. Intercâmbio de informações sobre a profissão agrônoma em geral.
2. Encouragement of joint events of all kinds.	2. Encorajamento de eventos conjuntos de todos os tipos.
3. Encouragement of the exchange of students, professionals, and guests.	3. Incentivo ao intercâmbio de estudantes, profissionais e convidados.
4. Exchange of information regarding scientific and technical events that are of mutual interest.	4. Intercâmbio de informações sobre eventos científicos e técnicos de interesse mútuo.



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<p>5. Provide mutual professional advice, especially in all areas of international, technical and scientific matters to the extent provided by each organization to its own members.</p>	<p>5. Fornecer aconselhamento profissional mútuo, especialmente em todas as áreas de assuntos internacionais, técnicos e científicos, na medida em que for fornecido por cada organização aos seus próprios membros.</p>
<p>6. Work together to initiate a specific professional certification program between ASA, CSSA, SSSA and Confea.</p>	<p>6. Trabalhar juntos para iniciar um programa de certificação profissional específico entre a ASA, CSSA, SSSA e o Confea.</p>
<p>American Society of Agronomy (ASA)</p> <p>Crop Science Society of America (CSSA)</p> <p>Soil Science Society of America (SSSA)</p>	<p>Conselho Federal de Engenharia e Agronomia (CONFEA)</p>



Momento da assinatura do Memorando de Entendimento entre o Confea e a *American Society of Agronomy - ASA*, *Crop Science Society of America - CSSA* e *Soil Science Society of America - SSSA*. Da direita para a esquerda: Conselheiro Federal Eng. Agr. Evandro Martins e o presidente da SSSA, William L. Pan.



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Momento da assinatura do Memorando de Entendimento entre o Confea e a *American Society of Agronomy - ASA*, *Crop Science Society of America - CSSA* e *Soil Science Society of America - SSSA*. Da direita para a esquerda: Eng. Agr. João Bosco de Andrade Lima Filho, representando o Presidente do Confea, Conselheiro Federal Eng. Agr. Evandro Martins, o presidente da ASA Gary M. Pierzynski, o ex-presidente da SSSA Richard P. Dick, o presidente da SSSA William L. Pan, a diretora executiva da ASA Ellen G.M. Bergfeld (assinando) e a presidente da CSSA Elizabeth Guertal.

Conforme tratativas iniciadas por ocasião da Convenção da ASA 2018, o Acordo de Cooperação visa prioritariamente as seguintes atividades:

1. Intercâmbio de informações sobre a profissão agrônômica em geral.



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2. Encorajamento de eventos conjuntos de todos os tipos.
3. Incentivo ao intercâmbio de estudantes, profissionais e convidados.
4. Intercâmbio de informações sobre eventos científicos e técnicos de interesse mútuo.
5. Fornecer aconselhamento profissional mútuo, especialmente em todas as áreas de assuntos internacionais, técnicos e científicos, na medida em que for fornecido por cada organização aos seus próprios membros.
6. Trabalhar juntos para iniciar um programa de certificação profissional específico entre a ASA, CSSA, SSSA e o Confea.

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

Assim sendo, sugerimos a aprovação pelo Plenário do Confea do Acordo de Cooperação firmado, cuja validade encontra-se adstrita à respectiva aprovação plenária.

Posteriormente à aprovação, sugerimos que as ações inerentes ao Acordo de Cooperação sejam levadas a efeito pela Comissão de Articulação Institucional do Sistema – CAIS e pela Comissão de Ética e Exercício Profissional – CEEP, haja vista as respectivas atribuições regimentais, notadamente quanto ao início do programa de certificação profissional:

Art. 33. A Comissão de Articulação Institucional do Sistema – CAIS tem por finalidade identificar as questões que envolvam as profissões inseridas no Sistema Confea/Crea, propondo ações para a integração deste com o Estado e a sociedade globalizada.

(...)

Art. 39. A Comissão de Ética e Exercício Profissional – CEEP tem por finalidade zelar pela verificação e fiscalização do exercício e das atividades profissionais e pelo cumprimento do Código de Ética Profissional.



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5 – Conclusão:

Vislumbramos como sendo de grande relevância a assinatura do Acordo de Cooperação entre o Confea e a Confea e a *American Society of Agronomy - ASA, Crop Science Society of America - CSSA e Soil Science Society of America - SSSA*.

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.

San Diego - EUA, 09 de janeiro de 2019.

Eng. Agr. Evandro José Martins – Conselheiro Federal

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

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



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ANEXO

- SUNDAY, JANUARY 06, 2019
- 09:00 AM - 11:00 AM
- [S302 - SSSAJ Editorial Board Meeting](#)
 - o *Sheraton San Diego Hotel (Marina Tower)*
 - o - *Sea Breeze 1*
- 09:00 AM - 04:00 PM
- [NE 1438 Multistate Project Annual Meeting](#)
 - o *Sheraton San Diego Hotel (Marina Tower)*
 - o - *Room 415*
- 10:00 AM - 02:00 PM
- [SSSA K-12 Committee Meeting](#)
 - o *Sheraton San Diego Hotel (Marina Tower)*
 - o - *Exec Brdrm*
- 11:00 AM - 12:00 PM
- [S302 - SSSAJ New Editor Training](#)
 - o *Sheraton San Diego Hotel (Marina Tower)*
 - o - *Sea Breeze 1*
- 12:00 PM - 01:00 PM
- [S302 - SSSAJ Technical Editors](#)
 - o *Sheraton San Diego Hotel (Marina Tower)*
 - o - *Sea Breeze 1*
- 12:30 PM - 04:00 PM
- [SSSA Board of Directors Meeting](#)
 - o *Sheraton San Diego Hotel (Marina Tower)*
 - o - *Marina 6*
- 01:00 PM - 04:00 PM
- [USDA Gracenet, REAP, Nuonet and Relted Database Updates](#)
 - o *Sheraton San Diego Hotel (Marina Tower)*
 - o - *Nautilus 3*
- 01:00 PM - 05:00 PM
- [Explore San Diego](#)
- 02:00 PM - 03:00 PM



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- **1 From Advocacy to Membership: Getting Involved with SSSA**

o *Sheraton San Diego Hotel (Marina Tower)*

o - *Spinnaker 1*

- 02:00 PM - 04:15 PM

- **2 Special Session Symposium--Soil and National Security**

o *Sheraton San Diego Hotel (Marina Tower)*

o - *Marina 5*

- 02:30 PM - 06:00 PM

- **NE 1545 - Owts: Assessing the Impact of Climate Variability and Climate Change**

o *Sheraton San Diego Hotel (Marina Tower)*

o - *Room 411*

- 03:00 PM - 03:45 PM

- **3 Graduate Student Town Hall Meeting**

o *Sheraton San Diego Hotel (Marina Tower)*

o - *Spinnaker 1*

- 03:00 PM - 05:00 PM

- **4 Working with the Algorithms for Quantitative Pedology Package in R Workshop**

o *Sheraton San Diego Hotel (Marina Tower)*

o - *Marina 1*

- 03:00 PM - 05:30 PM

- **5 Soil Biology and Biochemistry General Oral**

o *Sheraton San Diego Hotel (Marina Tower)*

o - *Exec Center 4*

- 03:25 PM - 05:30 PM

- **6 Symposium--Soil Chemistry in the 21st Century: Current State and Future Developments**

o *Sheraton San Diego Hotel (Marina Tower)*

o - *Nautilus 4*

- 03:30 PM - 05:30 PM

- **7 Consulting Soil Scientists General Oral**

o *Sheraton San Diego Hotel (Marina Tower)*

o - *Spinnaker 2*

Approved for **PD 2.0** CEUs

- 04:00 PM - 05:30 PM

- **8 Student Networking Session-Building Professional Relationships Workshop**

o *Sheraton San Diego Hotel (Marina Tower)*



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○ - *Nautilus 5*

- 04:05 PM - 05:30 PM
- **9** [Special Session Symposium--Soil Systems Science I](#)
 - *Sheraton San Diego Hotel (Marina Tower)*

○ - *Nautilus 2*

Approved for **SW 1.0** CEUs

- 04:30 PM - 05:20 PM
- **10** [5 Minute Rapid--Soil and Water Management and Conservation Oral](#)
 - *Sheraton San Diego Hotel (Marina Tower)*

○ - *Spinnaker 1*

- 06:00 PM - 07:00 PM
- **11** [International Soils Meeting Opening Keynote](#)
 - *Sheraton San Diego Hotel (Marina Tower)*

○ - *Grande Ballroom BC*

- 07:00 PM - 07:30 PM
- [SSSA Soil Chemistry Mentor Meet and Greet](#)
 - *Sheraton San Diego Hotel (Marina Tower)*

○ - *Marina 1*

- 07:00 PM - 09:00 PM
- [Opening Reception](#)
 - *Sheraton San Diego Hotel*

○ - *Pavilion*

- [Soil Texturing Contest](#)
 - *Sheraton San Diego Hotel*

○ - *Pavilion*

- 07:30 PM - 10:00 PM
- [SSSA Fundamental Changes to Soil Taxonomy](#)
 - *Sheraton San Diego Hotel (Marina Tower)*

○ - *Room 411*

- 08:00 PM - 09:00 PM
- **12** [Undergraduate Student Reception](#)
 - *Sheraton San Diego Hotel (Bay Tower)*

○ - *Shutters*

- 08:30 PM - 09:30 PM



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- Publishing Reception

o Sheraton San Diego Hotel (Marina Tower)

o - Exec Center 1

• MONDAY, JANUARY 07, 2019

• 06:00 AM - 07:00 AM

• Specialty Group of Scientists and Students of Nepali Origin Meeting

o Sheraton San Diego Hotel (Bay Tower)

o - Carmel

• 07:00 AM - 09:00 AM

• 13 SSSA Breakfast, Awards, and Plenary (Nyle C. Brady Frontiers of Soil Science Lectureship)

o Sheraton San Diego Hotel (Marina Tower)

o - Grande Ballroom BC

• 09:00 AM - 06:00 PM

• Soil Texturing Contest

o Sheraton San Diego Hotel

o - Pavilion

• 09:20 AM - 11:35 AM

• 14 Interdisciplinary Research: What Works and What Does Not Oral (includes student competition)

o Sheraton San Diego Hotel (Marina Tower)

o - Marina 5

Approved for **PD 2.0** CEUs

• 09:25 AM - 11:30 AM

• 15 Symposium--Applications of Soil Moisture Monitoring in Agriculture, Hydrology, and Ecology

o Sheraton San Diego Hotel (Marina Tower)

o - Spinnaker 2

• 09:25 AM - 12:00 PM

• 16 Symposium--Soils and Wine

o Sheraton San Diego Hotel (Marina Tower)

o - Exec Center 3B

Approved for **SW 2.5** CEUs

• 17 CrossDiv Symposium--Anthropogenic and Climate Induced Soil Change: A Transdisciplinary Overview

o Sheraton San Diego Hotel (Marina Tower)

o - Grande Ballroom A

Approved for **SW 2.5** CEUs

• 18 Soil and Water Management and Conservation General Oral I (includes student competition)

o Sheraton San Diego Hotel (Bay Tower)



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- - *Coronado B*
- **19 Soil Physics and Hydrology General Oral I**
- *Sheraton San Diego Hotel (Marina Tower)*

- - *Nautilus 4*
- 09:30 AM - 10:45 AM
- **20 CrossDiv Symposium--Where Land Meets Sea: The Interdisciplinary Frontier of Coastal and Subaqueous Soils and Sediments**
- *Sheraton San Diego Hotel (Marina Tower)*

- - *Marina 6*
- Approved for **SW 1.0** CEUs

- 09:30 AM - 11:15 AM
- **21 Physical, Chemical and Biological Processes Controlling Transport and Remediation of Emerging Contaminants in Soils Oral (includes student competition)**
- *Sheraton San Diego Hotel (Marina Tower)*

- - *Sea Breeze 1*
- Approved for **SW 1.5** CEUs

- 09:30 AM - 11:30 AM
- **22 CrossDiv Symposium--Celebrating the 350th Anniversary of Discovering Phosphorus: For Better or Worse I**
- *Sheraton San Diego Hotel (Marina Tower)*

- - *Harbor Island 2*
- **23 CrossDiv Symposium--Role of Soils in Mediating the Critical Zone**
- *Sheraton San Diego Hotel (Marina Tower)*

- - *Exec Center 4*
- Approved for **SW 2.0** CEUs
- **24 Symposium--Soils of Wildfire-Affected Landscapes: Linking Belowground Ecology & Watershed Processes**
- *Sheraton San Diego Hotel (Marina Tower)*

- - *Harbor Island 1*
- Approved for **SW 2.0** CEUs

- 09:30 AM - 11:35 AM
- **25 CrossDiv Symposium--Biogeochemical Cycles of Essential Elements**
- *Sheraton San Diego Hotel (Marina Tower)*

- - *Harbor Island 3*
- Approved for **SW 2.0** CEUs
- **31 P Cycling in Soils: From the Molecular to the Field Scale Oral I (includes student competition)**
- *Sheraton San Diego Hotel (Marina Tower)*

- - *Nautilus 1*



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Approved for **NM 2.5** CEUs

- 09:30 AM - 12:00 PM
- **26** Denitrification in Agricultural Soils: Integrated Control and Modelling at Various Scales Oral
- Sheraton San Diego Hotel (Marina Tower)

- - Spinnaker 1

Approved for **SW 2.0** CEUs

- **27** Soil Education and Outreach General Oral
- Sheraton San Diego Hotel (Bay Tower)

- - Fairbanks B

- 09:30 AM - 12:05 PM
- **29** Are Extracted Humic Substances Relevant to Studies of Natural Organic Matter? Oral I (includes student competition)
- Sheraton San Diego Hotel (Marina Tower)

- - Nautilus 2

Approved for **SW 2.5** CEUs

- **30** Metal Contaminant Dynamics in Soils Oral I (includes student competition)
- Sheraton San Diego Hotel (Marina Tower)

- - Nautilus 5

Approved for **SW 2.5** CEUs

- **32** Soil Carbon Is Dead, Long Live Soil Carbon! Assessing and Predicting Transformations, Protection, and Turnover Oral I (includes student competition)
- Sheraton San Diego Hotel (Marina Tower)

- - Nautilus 3

Approved for **SW 2.5** CEUs

- 09:45 AM - 11:45 AM
- **28** Soil Fertility and Plant Nutrition General Oral I
- Sheraton San Diego Hotel (Marina Tower)

- - Exec Center 2B

- 10:00 AM - 12:00 PM
- **33** Graduate School Workshop for Undergrads
- Sheraton San Diego Hotel (Marina Tower)

- - Marina 1

- **34** Symposium--Progress in Improving N Recommendations - Are the Tools Transferable across Latitudes?
- Sheraton San Diego Hotel (Marina Tower)

- - Exec Center 2A

- 10:00 AM - 12:15 PM
- **35** Symposium--Pedogenic Signatures of Climate Change
- Sheraton San Diego Hotel (Marina Tower)



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

- - Exec Center 3A
Approved for **SW 2.0** CEUs
- 10:10 AM - 12:15 PM
- [36 Symposium--Soils, Minerals, and Landscapes in Mediterranean \(Xeric\) Climates](#)
- *Sheraton San Diego Hotel (Bay Tower)*
- - Fairbanks A
- 10:30 AM - 12:00 PM
- [Communications 101 for Scientists: Relating in 2019](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - Exec Center 1
- 10:55 AM - 11:30 AM
- [37 Poster and 5 Minute Rapid--Wetland Soils Oral \(includes student competition\)](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - Marina 6
- 12:00 PM - 01:30 PM
- [Lunch Seating Monday](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - Grande Ballroom BC & Bayview Lawn
- 12:00 PM - 02:00 PM
- [Meet the Editors I](#)
- *Sheraton San Diego Hotel*
- - Pavilion
- 12:15 PM - 01:15 PM
- [SSSA Town Hall Meeting](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - Grande Ballroom BC
- 01:15 PM - 02:20 PM
- [38 Conservation Agriculture Practices and Greenhouse Gas Emissions Oral](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - Exec Center 3A
Approved for **SW 1.0** CEUs
- 01:15 PM - 03:25 PM
- [39 Developments in Pedology in the US, Canada, and Mexico Oral \(includes student competition\)](#)
- *Sheraton San Diego Hotel (Bay Tower)*
- - Fairbanks C



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

- 01:15 PM - 04:15 PM
- **40** Special Session Symposium--Driving Multifunctionality through Soil Processes: Impacts of Diversified Farming Systems on Soil Biology and Biogeochemistry
- Sheraton San Diego Hotel (Bay Tower)
- - Point Loma A
- Approved for **SW 3.0** CEUs
- 01:25 PM - 02:30 PM
- **42** Nutrient Use Efficiency and Environmental Impacts Oral I
- Sheraton San Diego Hotel (Marina Tower)
- - Exec Center 4
- 01:25 PM - 04:00 PM
- **43** The Root of the Matter - Closing the Gaps between Physics, Biology and Chemistry Oral
- Sheraton San Diego Hotel (Marina Tower)
- - Nautilus 4
- Approved for **SW 2.5** CEUs
- 01:25 PM - 04:15 PM
- **44** Applications of Soil Moisture Monitoring in Agriculture, Hydrology, and Ecology Oral (includes student competition)
- Sheraton San Diego Hotel (Marina Tower)
- - Marina 6
- Approved for **SW 2.5** CEUs
- 01:30 PM - 02:55 PM
- **45** Poster and 5 Minute Rapid--Soil Biology and Biochemistry Oral (includes student competition)
- Sheraton San Diego Hotel (Marina Tower)
- - Sea Breeze 1
- 01:30 PM - 03:00 PM
- **NC1187** Multi-State Research Project Group Meeting
- Sheraton San Diego Hotel (Bay Tower)
- - Carmel
- 01:30 PM - 03:20 PM
- **46** P Cycling in Soils: From the Molecular to the Field Scale Oral II (includes student competition)
- Sheraton San Diego Hotel (Marina Tower)
- - Nautilus 1
- Approved for **NM 2.0** CEUs
- 01:30 PM - 03:30 PM
- **47** Special Session Symposium--Certified Professional Soil Scientist (CPSS) Accelerator
- Sheraton San Diego Hotel (Marina Tower)



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

- - *Nautilus 5*
- **48** CrossDiv Symposium--Celebrating the 350th Anniversary of Discovering Phosphorus: For Better or Worse II
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Harbor Island 2*
- **49** Crossdiv Symposium--Geoarchaeology and Ancient Anthropogenic Soils
- *Sheraton San Diego Hotel (Bay Tower)*
- - *Fairbanks A*
- 01:30 PM - 03:45 PM
- **50** Microbial Ecology of Mine Waste Reclamation and Ecosystem Regeneration Oral
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Sea Breeze 2*
- Approved for **SW 2.0** CEUs
- 01:30 PM - 04:00 PM
- **51** CrossDiv Symposium--Soils of Fire-affected Landscapes: Linking Belowground Ecology & Watershed Processes
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Harbor Island 1*
- Approved for **SW 2.5** CEUs
- **52** Soils in Ecological Restoration Oral (includes student competition)
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Marina 5*
- Approved for **SW 2.5** CEUs
- **53** Soil-Based Wastewater Treatment: Impact and Mechanisms Oral (includes student competition)
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Spinnaker 1*
- Approved for **SW 2.5** CEUs
- 01:30 PM - 04:05 PM
- **54** Metal Contaminant Dynamics in Soils Oral II (includes student competition)
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Spinnaker 2*
- Approved for **SW 2.5** CEUs
- **55** The Wettest Wetlands: Coastal and Subaqueous Soils and Sediments Oral
- *Sheraton San Diego Hotel (Bay Tower)*
- - *Fairbanks B*
- Approved for **SW 2.5** CEUs
- 01:30 PM - 04:15 PM
- **41** Soil and Water Management and Conservation General Oral II (includes student competition)
- *Sheraton San Diego Hotel (Bay Tower)*



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

- - *Coronado B*
 - 01:30 PM - 04:20 PM
 - **56** Are Extracted Humic Substances Relevant to Studies of Natural Organic Matter? Oral II (includes student competition)
 - *Sheraton San Diego Hotel (Marina Tower)*
- - *Nautilus 2*

Approved for **SW 3.0** CEUs

 - **57** Soil Carbon Is Dead, Long Live Soil Carbon! Assessing and Predicting Transformations, Protection, and Turnover Oral II (includes student competition)
 - *Sheraton San Diego Hotel (Marina Tower)*
- - *Nautilus 3*

Approved for **SW 3.0** CEUs

 - **58** Soil Fertility and Plant Nutrition General Oral II
 - *Sheraton San Diego Hotel (Marina Tower)*
- - *Exec Center 2B*
 - 02:00 PM - 04:00 PM
 - **60** Special Session Symposium--Planning for a Successful Retirement
 - *Sheraton San Diego Hotel (Bay Tower)*
- - *Point Loma B*
 - 02:30 PM - 04:20 PM
 - **61** Soil-Water-Plant-Atmosphere Interactions and Soil Carbon Dynamics in Long-Term Research Experiments Oral
 - *Sheraton San Diego Hotel (Marina Tower)*
- - *Exec Center 3A*

Approved for **SW 2.0** CEUs

 - 02:40 PM - 03:50 PM
 - **62** Poster and 5 Minute Rapid--Soil Fertility and Plant Nutrition--Graduate Student Competition
 - *Sheraton San Diego Hotel (Marina Tower)*
- - *Exec Center 4*
 - 03:00 PM - 04:00 PM
 - National Collegiate Soils Contest Committee Meeting
 - *Sheraton San Diego Hotel (Marina Tower)*
- - *Room 411*
 - 03:00 PM - 04:30 PM
 - Insta-Education: Increasing Soil's Profile with Social Media
 - *Sheraton San Diego Hotel (Marina Tower)*
- - *Exec Center 1*



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

- 03:00 PM - 05:00 PM
- [63 Special Session Symposium--Grand Soil Challenges Across Latitudes](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - Harbor Island 3
- 03:15 PM - 03:50 PM
- [64 Poster and 5 Minute Rapid--Soil and Water Management and Conservation Oral \(includes student competition\)](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - Exec Center 2A
- 03:30 PM - 06:00 PM
- [NAPT Oversight & PAP Committee](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - Exec Brdrm
- 03:35 PM - 04:00 PM
- [65 Poster and 5 Minute Rapid--Pedology Oral \(includes student competition\)](#)
- *Sheraton San Diego Hotel (Bay Tower)*
- - Fairbanks C
- 03:40 PM - 04:15 PM
- [66 Geoarchaeology and Ancient Anthropogenic Soils Oral \(includes student competition\)](#)
- *Sheraton San Diego Hotel (Bay Tower)*
- - Fairbanks D
- Approved for **SW 1.0** CEUs
- 04:00 PM - 05:30 PM
- [SSSA Representation and Recognition Task Force](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - Room 415
- 04:00 PM - 06:00 PM
- [67 Soils in Ecological Restoration Poster \(includes student competition\)](#)
- *Sheraton San Diego Hotel*
- - Pavilion
- [68 Soils of Wildfire-Affected Landscapes: Linking Belowground Ecology and Watershed Processes Poster \(includes student competition\)](#)
- *Sheraton San Diego Hotel*
- - Pavilion
- [69 Nutrient Management and Soil and Plant Analysis General Poster](#)
- *Sheraton San Diego Hotel*
- - Pavilion



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

- **70** Developments in Pedology in the US, Canada, and Mexico Poster (includes student competition)
- Sheraton San Diego Hotel
- - Pavilion
- **71** Pedogenic Signatures of Climate Change Poster (includes student competition)
- Sheraton San Diego Hotel
- - Pavilion
- **72** Recent Advances and Applications in Soil Micromorphology Poster (includes student competition)
- Sheraton San Diego Hotel
- - Pavilion
- **73** The Nexus between Attributes, Indicators, and Indices in the Soil, Crop, and Agronomic Sciences Poster (includes student competition)
- Sheraton San Diego Hotel
- - Pavilion
- **74** Soil and Water Management and Conservation General Poster I (includes student competition)
- Sheraton San Diego Hotel
- - Pavilion
- **75** Denitrification in Agricultural Soils: Integrated Control and Modelling at Various Scales Poster
- Sheraton San Diego Hotel
- - Pavilion
- **76** Role of Soils in Mediating the Critical Zone Poster
- Sheraton San Diego Hotel
- - Pavilion
- **77** Soil Biology and Biochemistry General Poster
- Sheraton San Diego Hotel
- - Pavilion
- **78** Are Extracted Humic Substances Relevant to Studies of Natural Organic Matter? Poster (includes student competition)
- Sheraton San Diego Hotel
- - Pavilion
- **79** Metal Contaminant Dynamics in Soils Poster (includes student competition)
- Sheraton San Diego Hotel
- - Pavilion
- **80** P Cycling in Soils: From the Molecular to the Field Scale Poster (includes student competition)
- Sheraton San Diego Hotel
- - Pavilion
- **81** Soil Carbon Is Dead, Long Live Soil Carbon! Assessing and Predicting Transformations, Protection, and Turnover Poster (includes student competition)
- Sheraton San Diego Hotel



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

- - *Pavilion*
- **82 Nitrogen - Soil Fertility and Plant Nutrition Poster**
- *Sheraton San Diego Hotel*
- - *Pavilion*
- **83 Soil Fertility and Plant Nutrition General Poster**
- *Sheraton San Diego Hotel*
- - *Pavilion*
- **84 Applications of Soil Moisture Monitoring in Agriculture, Hydrology, and Ecology Poster (includes student competition)**
- *Sheraton San Diego Hotel*
- - *Pavilion*
- **85 Soil Physics and Hydrology General Poster I**
- *Sheraton San Diego Hotel*
- - *Pavilion*
- **86 The Root of the Matter - Closing the Gaps between Physics, Biology and Chemistry Poster (includes student competition)**
- *Sheraton San Diego Hotel*
- - *Pavilion*
- **87 Physical, Chemical and Biological Processes Controlling Transport and Remediation of Emerging Contaminants in Soils Poster (includes student competition)**
- *Sheraton San Diego Hotel*
- - *Pavilion*
- **88 Soil-Based Wastewater Treatment: Impact and Mechanisms Poster (includes student competition)**
- *Sheraton San Diego Hotel*
- - *Pavilion*
- **89 Wetland Soils General Poster**
- *Sheraton San Diego Hotel*
- - *Pavilion*
- 05:00 PM - 06:00 PM
- **ACS Diversity Committee Meeting**
- *Sheraton San Diego Hotel (Bay Tower)*
- - *Catalina Ballroom*
- 05:00 PM - 06:15 PM
- **Higher Educational Materials Committee**
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Room 411*
- 05:30 PM - 07:00 PM
- **90 Wine Tasting**



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- *Sheraton San Diego Hotel (Marina Tower)*
- - *Nautilus 5*
 - 05:30 PM - 08:30 PM
 - [S324.1 - Journal of Environmental Quality Technical Editor Meeting](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Room 415*
 - 07:00 PM - 10:00 PM
 - [91 Open Mic Night](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Harbor Island 2*
 - [92 Soils as Art-Soils is Art](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Harbor Island 2*
 - 07:30 PM - 09:00 PM
 - [2019 Program Planning Meeting](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Marina 6*

- TUESDAY, JANUARY 08, 2019
- 07:30 AM - 09:00 AM
- [93 Francis E. Clark Distinguished Lectureship on Soil Biology](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Grande Ballroom BC*
 - 07:30 AM - 05:00 PM
 - [Gateway Scholars Orientation and Motivational Program](#)
- *Sheraton San Diego Hotel (Bay Tower)*
- - *Catalina Ballroom*
 - 09:00 AM - 02:00 PM
 - [Meet the Editors II](#)
- *Sheraton San Diego Hotel*
- - *Pavilion*
 - 09:00 AM - 06:00 PM
 - [Soil Texturing Contest](#)
- *Sheraton San Diego Hotel*
- - *Pavilion*



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

- 09:15 AM - 11:05 AM
- **94** Symposium--Certification and Licensing: What's the Difference?
- Sheraton San Diego Hotel (Marina Tower)
- - Spinnaker 2
Approved for **PD 1.5** CEUs
- 09:20 AM - 11:20 AM
- **95** Forest, Range and Wildland Soils General Oral I
- Sheraton San Diego Hotel (Marina Tower)
- - Exec Center 3B
- 09:20 AM - 12:00 PM
- **97** Special Session Symposium--Soil Systems Science II
- Sheraton San Diego Hotel (Marina Tower)
- - Exec Center 4
Approved for **SW 3.0** CEUs
- 09:20 AM - 12:15 PM
- **96** Special Session Symposium--Soils and Environmental/Urban Hazards
- Sheraton San Diego Hotel (Bay Tower)
- - Fairbanks A
Approved for **SW 3.0** CEUs
- 09:25 AM - 11:30 AM
- **98** Symposium--Advances in Remote Sensing of Land Surface Properties and Processes
- Sheraton San Diego Hotel (Bay Tower)
- - Point Loma A
Approved for **SW 2.0** CEUs
- 09:25 AM - 11:45 AM
- **99** Using Visible Near-Infrared Spectroscopy in Soil Science - from Basic to Advanced Parameters Oral
- Sheraton San Diego Hotel (Bay Tower)
- - Coronado B
Approved for **SW 2.0** CEUs
- 09:25 AM - 12:00 PM
- **101** Soil Carbon Is Dead, Long Live Soil Carbon! Assessing and Predicting Transformations, Protection, and Turnover Oral III (includes student competition)
- Sheraton San Diego Hotel (Marina Tower)
- - Marina 6
Approved for **SW 2.5** CEUs
- **102** Urban and Anthropogenic Soils General Oral I
- Sheraton San Diego Hotel (Bay Tower)
- - Fairbanks D



SERVIÇO PÚBLICO FEDERAL
CONSELHO FEDERAL DE ENGENHARIA E AGRONOMIA – CONFEA

- 09:25 AM - 12:15 PM
- **103** CrossDiv Symposium--The International Soil Biodiversity Symposium: "Global Advances and Gaps in Soil Biodiversity, Ecology, and Ecosystem Services"
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Grande Ballroom A*
- Approved for **SW 2.5** CEUs
- **105** Soil Physics and Hydrology General Oral II
- *Sheraton San Diego Hotel (Bay Tower)*
- - *Point Loma B*
- 09:30 AM - 10:50 AM
- **106** Wetland Soils General Oral I
- *Sheraton San Diego Hotel (Bay Tower)*
- - *Coronado A*
- 09:30 AM - 11:30 AM
- **107** Special Session Symposium--Can We Converge on a Minimum Dataset for Soil Health Evaluation?
- *Sheraton San Diego Hotel (Bay Tower)*
- - *Fairbanks B*
- Approved for **SW 2.0** CEUs
- **108** Special Session Symposium--Food and Environmental Security: Developing Joint Solutions
- *Sheraton San Diego Hotel (Bay Tower)*
- - *Fairbanks C*
- Approved for **NM 2.0** CEUs
- **109** Symposium--Linking Soil Microbial Communities to Biogeochemical Cycling
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Sea Breeze 2*
- Approved for **SW 2.0** CEUs
- 09:30 AM - 11:50 AM
- **110** Nanomaterials in Soil: Sources, Transformations, and Impact on Soil Health Oral (includes student competition)
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Marina 1*
- Approved for **SW 2.0** CEUs
- 09:30 AM - 12:00 PM
- **111** Management Impacts on Soil Properties and Soil C and N Dynamics Oral I
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Nautilus 3*
- Approved for **SW 2.5** CEUs
- 09:30 AM - 12:05 PM
- **113** Examining Soil Contamination Around the Globe Oral I (includes student competition)



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- *Sheraton San Diego Hotel (Marina Tower)*
- - *Marina 5*
Approved for **SW 2.5** CEUs
- 09:30 AM - 12:15 PM
- **114** [Agricultural Renaissance and Soil Health Oral I](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Nautilus 2*
Approved for **SW 2.5** CEUs
- **115** [Soil and Water Management and Conservation General Oral III \(includes student competition\)](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Nautilus 4*
- **116** [Soils and Environmental Quality General Oral I](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Exec Center 2B*
- 09:40 AM - 12:00 PM
- **100** [Celebrating the 350th Anniversary of Discovering Phosphorus: For Better or Worse. Oral Session I](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Nautilus 1*
- 09:40 AM - 12:15 PM
- **104** [Soil Resource Mapping and Scale Variation Oral I](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Harbor Island 1*
- 09:45 AM - 12:00 PM
- **112** [The Legacy and Future of Long Term Soil Manipulations Oral](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Sea Breeze 1*
Approved for **SW 2.5** CEUs
- 10:00 AM - 11:00 AM
- [The Profile Moderators Meeting](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Exec Board Room*
- 10:00 AM - 12:00 PM
- **117** [ACS528 Diversity Student Poster Competition](#)
- *Sheraton San Diego Hotel*
- - *Pavilion*
- **118** [Nitrogen - Soil Fertility and Plant Nutrition Oral I](#)
- *Sheraton San Diego Hotel (Marina Tower)*



**SERVIÇO PÚBLICO FEDERAL
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- - Exec Center 2A
 - 10:00 AM - 12:05 PM
 - **119 Special Session Symposium--Astropedology and Space Exploration: Synergies between Soil Science and Planetary Science**
 - Sheraton San Diego Hotel (Marina Tower)
- - Harbor Island 2
 - Approved for **SW 2.0** CEUs
 - 10:10 AM - 12:10 PM
 - **120 Nutrient Management with 4-Rs Principles Oral**
 - Sheraton San Diego Hotel (Marina Tower)
- - Exec Center 1
 - 10:30 AM - 12:00 PM
 - **121 Leadership Panel - a Science and an Art!**
 - Sheraton San Diego Hotel (Marina Tower)
- - Spinnaker 1
 - 10:40 AM - 12:00 PM
 - **122 Drought Effects on Soil Biogeochemical Cycling Oral I (includes student competition)**
 - Sheraton San Diego Hotel (Marina Tower)
- - Exec Center 3A
 - Approved for **SW 1.0** CEUs
 - 11:00 AM - 11:55 AM
 - **123 Poster and 5 Minute Rapid--Soils and Environmental Quality Oral (includes student competition)**
 - Sheraton San Diego Hotel (Marina Tower)
- - Harbor Island 3
 - 11:00 AM - 12:05 PM
 - **124 Wetland Soils Across Latitudes - Identification, Management, and Emerging Research Oral**
 - Sheraton San Diego Hotel (Bay Tower)
- - Coronado A
 - Approved for **SW 1.0** CEUs
 - 11:15 AM - 12:15 PM
 - **125 SSSA Business Meeting--Consulting Soil Scientists**
 - Sheraton San Diego Hotel (Marina Tower)
- - Spinnaker 2
 - 11:30 AM - 11:55 AM
 - **126 Poster and 5 Minute Rapid--Forest, Range and Wildland Soils Oral (includes student competition)**
 - Sheraton San Diego Hotel (Marina Tower)



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

- - Exec Center 3B
 - 12:00 PM - 01:30 PM
 - [Lunch Seating Tuesday](#)
 - *Sheraton San Diego Hotel (Marina Tower)*
- - Grande Ballroom BC & Bayview Lawn
 - 01:00 PM - 04:00 PM
 - [Openteam Planning Meeting](#)
 - *Sheraton San Diego Hotel (Bay Tower)*
- - Carmel
 - 01:00 PM - 05:00 PM
 - [All Hands on Deck!](#)
 - 01:15 PM - 02:35 PM
 - [128 Agricultural Renaissance and Soil Health Oral II](#)
 - *Sheraton San Diego Hotel (Marina Tower)*
- - Nautilus 2
 - Approved for **SW 1.0** CEUs
 - 01:15 PM - 04:00 PM
 - [129 Soil and Water Management and Conservation General Oral IV \(includes student competition\)](#)
 - *Sheraton San Diego Hotel (Marina Tower)*
- - Nautilus 4
 - 01:20 PM - 02:40 PM
 - [130 Urban and Anthropogenic Soils General Oral II](#)
 - *Sheraton San Diego Hotel (Bay Tower)*
- - Fairbanks D
 - 01:25 PM - 04:00 PM
 - [132 Advances in Remote Sensing of Land Surface Properties and Processes Oral \(includes student competition\)](#)
 - *Sheraton San Diego Hotel (Bay Tower)*
- - Point Loma A
 - Approved for **SW 2.0** CEUs
 - [133 Poster and 5 Minute Rapid--Soil Physics and Hydrology Oral \(includes student competition\)](#)
 - *Sheraton San Diego Hotel (Bay Tower)*
- - Catalina Ballroom
 - [134 Soils and Environmental Quality Oral II](#)
 - *Sheraton San Diego Hotel (Marina Tower)*
- - Exec Center 2B



**SERVIÇO PÚBLICO FEDERAL
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- 01:25 PM - 04:10 PM
- **135 Biological Indicators of Soil Health Oral**
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Sea Breeze 2*
- Approved for **SW 2.5** CEUs
- 01:25 PM - 04:30 PM
- **136 Celebrating the 350th Anniversary of Discovering Phosphorus: For Better or Worse. Oral Session II**
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Nautilus 1*
- 01:30 PM - 02:20 PM
- **137 Symposium--Great Images and Papers in Soil Science History**
- *Sheraton San Diego Hotel (Bay Tower)*
- - *Fairbanks C*
- 01:30 PM - 02:35 PM
- **138 Examining Soil Contamination Around the Globe Oral II (includes student competition)**
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Marina 5*
- Approved for **SW 1.0** CEUs
- 01:30 PM - 02:50 PM
- **139 Forest, Range and Wildland Soils General Oral II**
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Exec Center 3B*
- 01:30 PM - 03:05 PM
- **140 Drought Effects on Soil Biogeochemical Cycling Oral II**
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Exec Center 3A*
- 01:30 PM - 03:30 PM
- **141 Symposium--Potassium Recommendations**
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Harbor Island 3*
- **142 Nitrogen - Soil Fertility and Plant Nutrition Oral II**
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Exec Center 2A*
- 01:30 PM - 03:35 PM
- **143 CrossDiv Symposium--Coupled Soil Biogeochemical and Physical Processes Across Scales**
- *Sheraton San Diego Hotel (Marina Tower)*



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

- - Harbor Island 2
Approved for **SW 2.0** CEUs
- 01:30 PM - 03:50 PM
- **144** Soil Carbon Is Dead, Long Live Soil Carbon! Assessing and Predicting Transformations, Protection, and Turnover Oral IV (includes student competition)
- Sheraton San Diego Hotel (Marina Tower)
- - Marina 6
Approved for **SW 2.5** CEUs
- 01:30 PM - 04:00 PM
- **145** Special Session Symposium--Soil Systems Science III
- Sheraton San Diego Hotel (Marina Tower)
- - Exec Center 4
Approved for **SW 2.5** CEUs
- **146** Management Impacts on Soil Properties and Soil C and N Dynamics Oral II
- Sheraton San Diego Hotel (Marina Tower)
- - Nautilus 3
Approved for **SW 2.5** CEUs
- **147** Role of Soils in Mediating the Critical Zone Oral
- Sheraton San Diego Hotel (Marina Tower)
- - Sea Breeze 1
Approved for **SW 2.5** CEUs
- 01:40 PM - 03:05 PM
- **131** Soil Resource Mapping and Scale Variation Oral II
- Sheraton San Diego Hotel (Marina Tower)
- - Harbor Island 1
- 01:55 PM - 04:00 PM
- **148** Astropedology and Space Exploration: Synergies between Soil Science and Planetary Science Oral
- Sheraton San Diego Hotel (Marina Tower)
- - Exec Center 1
Approved for **SW 2.0** CEUs
- 02:00 PM - 06:00 PM
- **149** William H. Patrick, Jr. Memorial Lectureship
- Sheraton San Diego Hotel (Bay Tower)
- - Fairbanks AB
- 02:40 PM - 03:15 PM
- **150** Poster and 5 Minute Rapid--Soil Education and Outreach Oral (includes student competition)
- Sheraton San Diego Hotel (Bay Tower)



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

- - *Fairbanks C*
 - 02:45 PM - 04:05 PM
 - **151** Soil Health Education Oral
 - *Sheraton San Diego Hotel (Marina Tower)*
- - *Nautilus 2*
 - 02:50 PM - 03:10 PM
 - **152** Poster and 5 Minute Rapid--Urban and Anthropogenic Soils Oral (includes student competition)
 - *Sheraton San Diego Hotel (Bay Tower)*
- - *Fairbanks D*
 - 03:00 PM - 03:50 PM
 - **153** Special Session Symposium--Connecting with the Soil Health Institute, Capturing Opportunities and Overcoming Challenges
 - *Sheraton San Diego Hotel (Marina Tower)*
- - *Spinnaker 1*
 - 03:00 PM - 04:30 PM
 - **154** Crossdiv Symposium--Panel Discussion on the Dual-Career Problem
 - *Sheraton San Diego Hotel (Marina Tower)*
- - *Nautilus 5*
 - 03:15 PM - 04:15 PM
 - **155** SSSA Business Meeting--Pedology
 - *Sheraton San Diego Hotel (Marina Tower)*
- - *Harbor Island 1*
 - 03:20 PM - 04:20 PM
 - **156** SSSA Business Meeting--Urban and Anthropogenic Soils
 - *Sheraton San Diego Hotel (Bay Tower)*
- - *Fairbanks D*
 - 03:30 PM - 04:00 PM
 - **157** SSSA Business Meeting--Soil Education and Outreach
 - *Sheraton San Diego Hotel (Bay Tower)*
- - *Fairbanks C*
 - 03:30 PM - 04:30 PM
 - **158** SSSA Business Meeting--Wetland Soils
 - *Sheraton San Diego Hotel (Bay Tower)*
- - *Fairbanks AB*
 - 04:00 PM - 05:00 PM



**SERVIÇO PÚBLICO FEDERAL
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- **159 SSSA Business Meeting--Nutrient Management and Soil and Plant Analysis**
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Grande Ballroom A*
- **160 SSSA Business Meeting--Soil Fertility and Plant Nutrition**
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Grande Ballroom A*
- 04:00 PM - 06:00 PM
- **161 Drought Effects on Soil Biogeochemical Cycling Poster (includes student competition)**
- *Sheraton San Diego Hotel*
- - *Pavilion*
- **162 Forest, Range and Wildland Soils General Poster**
- *Sheraton San Diego Hotel*
- - *Pavilion*
- **163 Soils of the Permafrost Zone Poster (includes student competition)**
- *Sheraton San Diego Hotel*
- - *Pavilion*
- **164 Pedology General Poster**
- *Sheraton San Diego Hotel*
- - *Pavilion*
- **165 Agricultural Practices to Improve Nitrogen-Use Efficiency Poster**
- *Sheraton San Diego Hotel*
- - *Pavilion*
- **166 Celebrating the 350th Anniversary of Discovering Phosphorus: For Better or Worse. Poster Session**
- *Sheraton San Diego Hotel*
- - *Pavilion*
- **167 Ecological Effects of Manure Applications in Agricultural Production Systems Poster**
- *Sheraton San Diego Hotel*
- - *Pavilion*
- **168 Soil and Water Management and Conservation General Poster II**
- *Sheraton San Diego Hotel*
- - *Pavilion*
- **169 Soil-Water-Plant-Atmosphere Interactions and Soil Carbon Dynamics in Long-Term Research Experiments Poster**
- *Sheraton San Diego Hotel*
- - *Pavilion*
- **170 Biological Indicators of Soil Health Poster**
- *Sheraton San Diego Hotel*



**SERVIÇO PÚBLICO FEDERAL
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- - *Pavilion*
- **171** Global Advances in Soil Biodiversity, Ecology, and Ecosystem Services Poster
- *Sheraton San Diego Hotel*

- - *Pavilion*
- **172** Linking Soil Microbial Communities to Biogeochemical Cycling Poster
- *Sheraton San Diego Hotel*

- - *Pavilion*
- **173** Meeting the Challenge to Develop Sustainable and Resilient Agricultural Systems By Understanding Soil-Plant-Microbiome Relationships Posters
- *Sheraton San Diego Hotel*

- - *Pavilion*
- **174** The Legacy and Future of Long Term Soil Manipulations Poster
- *Sheraton San Diego Hotel*

- - *Pavilion*
- **175** Examining Soil Contamination Around the Globe Poster (includes student competition)
- *Sheraton San Diego Hotel*

- - *Pavilion*
- **176** Kinetics of Soil Biogeochemical Processes Poster (includes student competition)
- *Sheraton San Diego Hotel*

- - *Pavilion*
- **177** Nanomaterials in Soil: Sources, Transformations, and Impact on Soil Health Poster (includes student competition)
- *Sheraton San Diego Hotel*

- - *Pavilion*
- **178** Soil Chemistry General Poster
- *Sheraton San Diego Hotel*

- - *Pavilion*
- **179** Threats to Groundwater Quality: Biogeochemical Triggers As Culprit or Savior Poster (includes student competition)
- *Sheraton San Diego Hotel*

- - *Pavilion*
- **180** Soil Education and Outreach General Poster
- *Sheraton San Diego Hotel*

- - *Pavilion*
- **181** Phosphorus and Potassium - Soil Fertility and Plant Nutrition Poster
- *Sheraton San Diego Hotel*

- - *Pavilion*



**SERVIÇO PÚBLICO FEDERAL
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- **182** Astropedology and Space Exploration: Synergies between Soil Science and Planetary Science Poster
- Sheraton San Diego Hotel
- - Pavilion
- **183** Soil Mineralogy General Poster (includes student competition)
- Sheraton San Diego Hotel
- - Pavilion
- **184** Advances in Remote Sensing of Land Surface Properties and Processes Poster (includes student competition)
- Sheraton San Diego Hotel
- - Pavilion
- **185** Soil Physics and Hydrology General Poster II
- Sheraton San Diego Hotel
- - Pavilion
- **186** Using Visible Near-Infrared Spectroscopy in Soil Science - from Basic to Advanced Parameters Poster
- Sheraton San Diego Hotel
- - Pavilion
- **187** Soils and Environmental Quality General Poster
- Sheraton San Diego Hotel
- - Pavilion
- **188** Urban and Anthropogenic Soils General Poster
- Sheraton San Diego Hotel
- - Pavilion
- Evaluating Grazingland Soil Health - Identifying Challenges and Opportunities
- Sheraton San Diego Hotel (Marina Tower)
- - Spinnaker 1
- 04:30 PM - 05:30 PM
- Women in Science Meet-and-Greet - All Are Welcome!
- Sheraton San Diego Hotel (Marina Tower)
- - Nautilus 5
- 04:30 PM - 06:00 PM
- Wetland Soils Mixer
- Sheraton San Diego Hotel (Bay Tower)
- - Fairbanks AB
- 05:15 PM - 08:00 PM
- **189** Leo M. Walsh Soil Fertility Distinguished Lectureship
- Sheraton San Diego Hotel (Marina Tower)



**SERVIÇO PÚBLICO FEDERAL
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- - Grande Ballroom A
 - 05:30 PM - 07:30 PM
 - [ISU Mixer](#)
 - Sheraton San Diego Hotel (Bay Tower)
 - - Shuttlers
 - [S303 - Vadose Zone Journal Editorial Board Meeting](#)
 - Sheraton San Diego Hotel (Marina Tower)
 - - Room 415
 - 06:15 PM - 07:15 PM
 - [127 SSSA Business Meeting--Soil Biology and Biochemistry](#)
 - Sheraton San Diego Hotel (Marina Tower)
 - - Sea Breeze 1
 - [190 SSSA Business Meeting--Soil Chemistry](#)
 - Sheraton San Diego Hotel (Marina Tower)
 - - Marina 6
 - 06:30 PM - 07:30 PM
 - [191 SSSA Business Meeting--Soil Mineralogy](#)
 - Sheraton San Diego Hotel (Marina Tower)
 - - Exec Center 1
 - [192 SSSA Business Meeting--Soils and Environmental Quality](#)
 - Sheraton San Diego Hotel (Marina Tower)
 - - Exec Center 2B
 - 07:30 PM - 09:00 PM
 - [193 SSSA Trivia Night Social](#)
 - Sheraton San Diego Hotel (Marina Tower)
 - - Grande Ballroom BC
-
- WEDNESDAY, JANUARY 09, 2019
 - 07:30 AM - 09:00 AM
 - [194 Soil Sustainability Lecture](#)
 - Sheraton San Diego Hotel (Marina Tower)
 - - Grande Ballroom BC
 - 08:00 AM - 09:00 AM
 - [Launch of the Soils Consortium \(USAID-IFDC-SIIL\)](#)
 - Sheraton San Diego Hotel (Bay Tower)



**SERVIÇO PÚBLICO FEDERAL
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- - Point Loma A
- [Planning Committee Meeting for the 14th North American Forest Soils Conference](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - Room 415
- 08:30 AM - 10:30 AM
- [195 Special Session Symposium--Industrial Cannabis and Soil](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - Nautilus 2
- 09:00 AM - 04:30 PM
- [Soil Texturing Contest](#)
- *Sheraton San Diego Hotel*
- - Pavilion
- 09:15 AM - 10:05 AM
- [196 Soil Mineralogy General Oral \(includes student competition\)](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - Nautilus 1
- 09:15 AM - 12:15 PM
- [197 Phosphorus and Potassium General Oral](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - Spinnaker 1
- 09:25 AM - 12:00 PM
- [198 Urban Irrigation and Water Management Oral](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - Exec Center 1
- Approved for **SW 2.5** CEUs
- [199 Green Water and FEW Nexus Oral](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - Nautilus 4
- Approved for **SW 2.5** CEUs
- [200 On the Scaling Behavior of Subsurface Flow and Soil Hydraulic Properties in Hydrologic and Earth System Models Oral](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - Nautilus 5
- Approved for **SW 2.5** CEUs
- 09:25 AM - 12:15 PM
- [201 Agricultural Practices to Improve Nitrogen Use Efficiency Oral](#)
- *Sheraton San Diego Hotel (Marina Tower)*



**SERVIÇO PÚBLICO FEDERAL
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- - Marina 6
Approved for **NM 2.5** CEUs
- 09:30 AM - 10:25 AM
- **202** Soil and Environmental Quality General Oral III
- Sheraton San Diego Hotel (Marina Tower)
- - Exec Center 4
- 09:30 AM - 10:35 AM
- **203** Symposium--Soils of the Permafrost Zone
- Sheraton San Diego Hotel (Marina Tower)
- - Grande Ballroom A
Approved for **SW 1.0** CEUs
- 09:30 AM - 11:00 AM
- **204** Special Session Symposium--Challenges to Transdisciplinary Soil Research Focused on UN Sustainable Development Goals: Silo Breaking or Connecting?
- Sheraton San Diego Hotel (Marina Tower)
- - Marina 5
Approved for **SSp 1.5** CEUs
- **205** The Nexus between Attributes, Indicators, and Indices in the Soil, Crop, and Agronomic Sciences Oral (includes student competition)
- Sheraton San Diego Hotel (Marina Tower)
- - Exec Center 2B
Approved for **SW 1.5** CEUs
- Science Not Silence: An Advocacy Workshop
- Sheraton San Diego Hotel (Marina Tower)
- - Harbor Island 1
- 09:30 AM - 11:05 AM
- **206** Soil Chemistry General Oral
- Sheraton San Diego Hotel (Bay Tower)
- - Fairbanks A
- 09:30 AM - 11:35 AM
- **207** Symposium--A Multiscale Approach to Identifying Abiotic and Biotic Interactions That Shape C Dynamics in the Soil-Atmosphere Continuum and Across Latitudes
- Sheraton San Diego Hotel (Bay Tower)
- - Fairbanks B
Approved for **SW 2.0** CEUs
- 09:30 AM - 12:00 PM
- **208** Nutrient Management and Soil and Plant Analysis General Oral
- Sheraton San Diego Hotel (Marina Tower)



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- - *Spinnaker 2*
- **209** [Linking Soil Microbial Communities to Biogeochemical Cycling Oral](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Exec Center 3A*
- Approved for **SW 2.5** CEUs
- **210** [Meeting the Challenge to Develop Sustainable and Resilient Agricultural Systems By Understanding Soil-Plant-Microbiome Relationships Oral I](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Exec Center 3B*
- Approved for **NM 2.5** CEUs
- **214** [Soil Physics and Hydrology General Oral III](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Nautilus 3*
- 09:30 AM - 12:05 PM
- **211** [Kinetics of Soil Biogeochemical Processes Oral \(includes student competition\)](#)
- *Sheraton San Diego Hotel (Bay Tower)*
- - *Fairbanks C*
- Approved for **SW 2.5** CEUs
- **212** [Threats to Groundwater Quality: Biogeochemical Triggers As Culprit or Savior Oral \(includes student competition\)](#)
- *Sheraton San Diego Hotel (Bay Tower)*
- - *Fairbanks D*
- Approved for **SW 2.5** CEUs
- **213** [Wetland Soils General Oral II](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Sea Breeze 2*
- 10:00 AM - 12:00 PM
- **215** [Symposium--Animal Waste and Other Organic Nutrients in Agriculture](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Sea Breeze 1*
- Approved for **NM 2.0** CEUs
- **S324.1** - [Journal of Environmental Quality Editorial Board Meeting](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Marina 1*
- 10:10 AM - 12:15 PM
- **216** [Symposium--Examining Abiotic and Biotic Agents of Mineral Weathering](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - *Nautilus 1*
- Approved for **SW 1.0** CEUs



**SERVIÇO PÚBLICO FEDERAL
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- 10:15 AM - 10:50 AM
- **217** [Sergei A. Wilde Early Career Achievement Award Lectureship](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - Exec Center 2A
- 10:45 AM - 11:50 AM
- **218** [Soils Across Latitudes - Soil Acidification: Prevention, Adaptation, and Mitigation Oral \(includes student competition\)](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - Exec Center 4
- Approved for **SW 1.0** CEUs
- 11:00 AM - 12:00 PM
- **219** [Sergei A. Wilde Distinguished Lectureship on Forest Soils](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - Grande Ballroom A
- [Women in Science Committee Meeting](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - Room 415
- 12:00 PM - 01:30 PM
- [Lunch Seating Wednesday](#)
- *Sheraton San Diego Hotel*
- - Bayview Lawn
- 01:15 PM - 02:15 PM
- **220** [SSSA Business Meeting--Soil Physics and Hydrology](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - Nautilus 5
- 01:25 PM - 02:30 PM
- **221** [Nutrient Use Efficiency and Environmental Impacts Oral II](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - Spinnaker 2
- **222** [Symposium--Advancing Pedology Colloquium](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - Exec Center 2B
- **223** [Meeting the Challenge to Develop Sustainable and Resilient Agricultural Systems By Understanding Soil-Plant-Microbiome Relationships Oral II](#)
- *Sheraton San Diego Hotel (Marina Tower)*
- - Exec Center 3B
- Approved for **NM 1.0** CEUs



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

- **224 Threats to Groundwater Quality: Biogeochemical Triggers As Culprit or Savior Oral I (includes student competition)**
- *Sheraton San Diego Hotel (Marina Tower)*
- - Exec Center 4
- Approved for **SW 1.0** CEUs
- 01:30 PM - 02:30 PM
- **225 SSSA Business Meeting--Forest, Range and Wildland Soils**
- *Sheraton San Diego Hotel (Marina Tower)*
- - Exec Center 2A
- **226 SSSA Business Meeting--Soil and Water Management and Conservation**
- *Sheraton San Diego Hotel (Marina Tower)*
- - Exec Center 1
- 02:30 PM - 03:30 PM
- **Kirkham Conference Committee Meeting**
- *Sheraton San Diego Hotel (Marina Tower)*
- - Exec Brdrm
- 02:30 PM - 04:00 PM
- **227 Society-Wide Student Oral Competition**
- *Sheraton San Diego Hotel (Marina Tower)*
- - Grande Ballroom BC
- 04:00 PM - 05:00 PM
- **228 Society-Wide Student Poster Viewing and Closing Reception**
- *Sheraton San Diego Hotel (Marina Tower)*
- - Grande Ballroom BC
- 05:00 PM - 06:00 PM
- **229 International Soils Meeting Closing Keynote**
- *Sheraton San Diego Hotel (Marina Tower)*
- - Grande Ballroom BC
- 06:00 PM - 08:00 PM
- **SSSA Board Social**
- *Sheraton San Diego Hotel (Marina Tower)*
- - Harbor & Vine Lobby Bar