



The 2nd EITA-New Agriculture Conference
(the EITA-New Agriculture 2016) or (the EITA-EITC 2016)

**"Precision Agriculture: Challenges, Opportunities and
Future Directions"**

Conference Proceedings

National Taiwan University
Taipei, Republic of China (Taiwan)

Saturday-Sunday, October 22-23, 2016

<Draft: 1/23/16>

Table of Contents

<i>Table of Contents</i>	2
<i>Welcome Message</i>	4
<i>Conference Themes</i>	5
<i>Planning Committee</i>	6
<i>Conference Program</i>	8
Day 1 (Saturday, October 22, 2016).....	8
Day 2 (Sunday, October 23, 2016).....	9
<i>Abstracts and Biographies</i>	10
<i>Day 1 (October 22, 2016)</i>	10
Opening Session.....	10
Plenary Session (I)	15
Plenary Session (II)	17
Student Poster Competition	19
Technical Session D1-S1-T1: Food Security and Safety-Plant/Animal Production, Protection, Processing, Distribution, Utilization, and Resource Recovery	21
Technical Session D1-S2-T1: Energy Security-Supply, Demand, Conservation, and Renewable Sources.....	26
Technical Session D1-S3-T1: Water Security-Supply, Demand, Conservation, and Quality Improvement/Assurance.....	31
Technical Session D1-S4-T1: Systems Informatics and Analytics-Climate Change, Sustainability, Productivity, Competitiveness, Intelligence, and Nexus of Food/Energy/Water Systems (FEWS)36	
Technical Session D1-S1-T2: Food Security and Safety-Plant/Animal Production, Protection, Processing, Distribution, Utilization, and Resource Recovery	41
Technical Session D1-S2-T2: Energy Security-Supply, Demand, Conservation, and Renewable Sources.....	46
Technical Session D1-S3-T2: Water Security-Supply, Demand, Conservation, and Quality Improvement/Assurance.....	51
Technical Session D1-S4-T2: Systems Informatics and Analytics-Climate Change, Sustainability, Productivity, Competitiveness, Intelligence, and Nexus of Food/Energy/Water Systems (FEWS)56	
<i>Day 2 (October 23, 2016)</i>	61
Panel Discussions:	61
Technical Session D2-S1-T1: Food Security and Safety-Plant/Animal Production, Protection, Processing, Distribution, Utilization, and Resource Recovery	65
Technical Session D2-S2-T1: Energy Security-Supply, Demand, Conservation, and Renewable Sources.....	69

Technical Session D2-S3-T1: Water Security-Supply, Demand, Conservation, and Quality Improvement/Assurance.....	74
Technical Session D2-S4-T1: Systems Informatics and Analytics-Climate Change, Sustainability, Productivity, Competitiveness, Intelligence, and Nexus of Food/Energy/Water Systems (FEWS)79	
Technical Session D2-S1-T2: Food Security and Safety-Plant/Animal Production, Protection, Processing, Distribution, Utilization, and Resource Recovery	84
Technical Session D2-S2-T2: Energy Security-Supply, Demand, Conservation, and Renewable Sources.....	89
Technical Session D2-S3-T2: Water Security-Supply, Demand, Conservation, and Quality Improvement/Assurance.....	95
Technical Session D2-S4-T2: Systems Informatics and Analytics-Climate Change, Sustainability, Productivity, Competitiveness, Intelligence, and Nexus of Food/Energy/Water Systems (FEWS)	100
Student Poster Competition	105
Technical Session D2-S1-T3: Food Security and Safety-Plant/Animal Production, Protection, Processing, Distribution, Utilization, and Resource Recovery	107
Technical Session D2-S2-T3: Energy Security-Supply, Demand, Conservation, and Renewable Sources.....	112
Technical Session D2-S3-T3: Water Security-Supply, Demand, Conservation, and Quality Improvement/Assurance.....	117
Technical Session D2-S4-T3: Systems Informatics and Analytics-Climate Change, Sustainability, Productivity, Competitiveness, Intelligence, and Nexus of Food/Energy/Water Systems (FEWS)	123
Technical Session D2-S1-T4: Food Security and Safety-Plant/Animal Production, Protection, Processing, Distribution, Utilization, and Resource Recovery	128
Technical Session D2-S2-T4: Energy Security-Supply, Demand, Conservation, and Renewable Sources.....	133
Technical Session D2-S3-T4: Water Security-Supply, Demand, Conservation, and Quality Improvement/Assurance.....	138
Technical Session D2-S4-T4: Systems Informatics and Analytics-Climate Change, Sustainability, Productivity, Competitiveness, Intelligence, and Nexus of Food/Energy/Water Systems (FEWS)	143

Welcome Message

Conference Themes

"Precision Agriculture: Challenges and Future Directions"

The EITA-New Materials 2014 conference consists of five parallel workshops:

- **Workshop 1 (W1):** Food Security and Safety-Plant/Animal Production, Protection, Processing, Distribution, Utilization, and Resource Recovery
- **Workshop 2 (W2):** Energy Security-Supply, Demand, Conservation, and Renewable Sources
- **Workshop 3 (W3):** Water Security-Supply, Demand, Conservation, and Quality Improvement/Assurance
- **Workshop 4 (W4):** Systems Informatics and Analytics-Climate Change, Sustainability, Productivity, Competitiveness, Intelligence, and Nexus of Food/Energy/Water Systems (FEWS)
- **Student Poster Competition**

Planning Committee

General Conference Chairs

Conference Organizers

Project Manager and Conference Manager

Program Steering Committee

Program Committee

Workshop Track Co-Chairs

Workshop 1 (W1): Food Security and Safety-Plant/Animal Production, Protection, Processing, Distribution, Utilization, and Resource Recovery

<TBD>

Workshop 2 (W2): Energy Security-Supply, Demand, Conservation, and Renewable Sources

<TBD>

Workshop 3 (W3): Water Security-Supply, Demand, Conservation, and Quality Improvement/Assurance

<TBD>

Workshop 4 (W4): Systems Informatics and Analytics-Climate Change, Sustainability, Productivity, Competitiveness, Intelligence, and Nexus of Food/Energy/Water Systems (FEWS)

<TBD>

Student Poster Competition

Publication

Conference Programs: <TBD>

Conference Proceedings: <TBD>

Local Management

<TBD>

On-Site Registration

<TBD>

Web Development

Michael Hwa-Han Wang (王華漢) EBMedia, LLC

Organizing Associations

Emerging Information and Technology Association (新興資訊科技協會)

Conference Program

Day 1 (Saturday, October 22, 2016)

Day 2 (Sunday, October 23, 2016)

Abstracts and Biographies

Day 1 (October 22, 2016)

Opening Session

General Conference Chair

BIOGRAPHY

Opening Session

General Conference Chair

BIOGRAPHY

Opening Session

Welcome Remarks

BIOGRAPHY

Opening Session

Welcome Remarks

BIOGRAPHY

Opening Session

Project Manager

BIOGRAPHY

Plenary Session (I)

Workshop Co-chair and Session Co-chair

BIOGRAPHY

Plenary Session (1)

Plenary Speaker

ABSTRACT

BIOGRAPHY

Plenary Session (II)

Workshop Co-chair and Session Co-chair

BIOGRAPHY

Plenary Session (II)

Plenary Speaker

ABSTRACT

BIOGRAPHY

Student Poster Competition

Session Chair

BIOGRAPHY

Student Poster Competition

ABSTRACT

BIOGRAPHY

*Technical Session D1-S1-T1: Food Security and Safety-Plant/Animal Production, Protection,
Processing, Distribution, Utilization, and Resource Recovery*

Session Chair

BIOGRAPHY

*Technical Session D1-S1-T1: Food Security and Safety-Plant/Animal Production, Protection,
Processing, Distribution, Utilization, and Resource Recovery*

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ABSTRACT

BIOGRAPHY

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Processing, Distribution, Utilization, and Resource Recovery

ABSTRACT

BIOGRAPHY

Technical Session D1-S2-T1: Energy Security-Supply, Demand, Conservation, and Renewable Sources

Session Chair

BIOGRAPHY

Technical Session D1-S2-T1: Energy Security-Supply, Demand, Conservation, and Renewable Sources

ABSTRACT

Technical Session D1-S2-T1: Energy Security-Supply, Demand, Conservation, and Renewable Sources

ABSTRACT

BIOGRAPHY

Technical Session D1-S2-T1: Energy Security-Supply, Demand, Conservation, and Renewable Sources

ABSTRACT

BIOGRAPHY

Technical Session D1-S2-T1: Energy Security-Supply, Demand, Conservation, and Renewable Sources

ABSTRACT

BIOGRAPHY

Technical Session D1-S3-T1: Water Security-Supply, Demand, Conservation, and Quality Improvement/Assurance

Session Chair

BIOGRAPHY

Technical Session D1-S3-T1: Water Security-Supply, Demand, Conservation, and Quality Improvement/Assurance

ABSTRACT

BIOGRAPHY

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ABSTRACT

BIOGRAPHY

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ABSTRACT

BIOGRAPHY

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ABSTRACT

BIOGRAPHY

Technical Session D1-S4-T1: Systems Informatics and Analytics-Climate Change, Sustainability, Productivity, Competitiveness, Intelligence, and Nexus of Food/Energy/Water Systems (FEWS)

Session Chair

BIOGRAPHY

Technical Session D1-S4-T1: Systems Informatics and Analytics-Climate Change, Sustainability, Productivity, Competitiveness, Intelligence, and Nexus of Food/Energy/Water Systems (FEWS)

ABSTRACT

BIOGRAPHY

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ABSTRACT

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ABSTRACT

BIOGRAPHY

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ABSTRACT

BIOGRAPHY

Technical Session D1-S1-T2: Food Security and Safety-Plant/Animal Production, Protection, Processing, Distribution, Utilization, and Resource Recovery

Session Chair

ABSTRACT

BIOGRAPHY

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ABSTRACT

BIOGRAPHY

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ABSTRACT

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ABSTRACT

BIOGRAPHY

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ABSTRACT

BIOGRAPHY

Technical Session D1-S2-T2: Energy Security-Supply, Demand, Conservation, and Renewable Sources

Session Chair

ABSTRACT

BIOGRAPHY

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ABSTRACT

BIOGRAPHY

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ABSTRACT

BIOGRAPHY

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ABSTRACT

BIOGRAPHY

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ABSTRACT

BIOGRAPHY

Technical Session D1-S3-T2: Water Security-Supply, Demand, Conservation, and Quality Improvement/Assurance

Session Chair

BIOGRAPHY

Technical Session D1-S3-T2: Water Security-Supply, Demand, Conservation, and Quality Improvement/Assurance

ABSTRACT

BIOGRAPHY

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ABSTRACT

BIOGRAPHY

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ABSTRACT

BIOGRAPHY

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ABSTRACT

BIOGRAPHY

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BIOGRAPHY

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ABSTRACT

BIOGRAPHY

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ABSTRACT

BIOGRAPHY

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ABSTRACT

BIOGRAPHY

Technical Session D1-S4-T2: Systems Informatics and Analytics-Climate Change, Sustainability, Productivity, Competitiveness, Intelligence, and Nexus of Food/Energy/Water Systems (FEWS)

ABSTRACT

BIOGRAPHY

Day 2 (October 23, 2016)

Panel Discussions:

Topic:

<TBD>

Description:

<TBD>

Plenary Session (IV): Panel Discussions: Academia and Industry Collaboration

Moderator and Panelist

BIOGRAPHY

Plenary Session (IV): Panel Discussions: Academia and Industry Collaboration

Panelist

BIOGRAPHY

Plenary Session (IV): Panel Discussions: Academia and Industry Collaboration

Panelist

BIOGRAPHY

Technical Session D2-S1-T1: Food Security and Safety-Plant/Animal Production, Protection, Processing, Distribution, Utilization, and Resource Recovery

Session Chair

BIOGRAPHY

Technical Session D2-S1-T1: Food Security and Safety-Plant/Animal Production, Protection,
Processing, Distribution, Utilization, and Resource Recovery

ABSTRACT

BIOGRAPHY

Technical Session D2-S1-T1: Food Security and Safety-Plant/Animal Production, Protection,
Processing, Distribution, Utilization, and Resource Recovery

ABSTRACT

BIOGRAPHY

*Technical Session D2-S1-T1: Food Security and Safety-Plant/Animal Production, Protection,
Processing, Distribution, Utilization, and Resource Recovery*

ABSTRACT

BIOGRAPHY

Technical Session D2-S2-T1: Energy Security-Supply, Demand, Conservation, and Renewable Sources

Session Chair

BIOGRAPHY

Technical Session D2-S2-T1: Energy Security-Supply, Demand, Conservation, and Renewable Sources

ABSTRACT

BIOGRAPHY

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ABSTRACT

BIOGRAPHY

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ABSTRACT

BIOGRAPHY

Technical Session D2-S2-T1: Energy Security-Supply, Demand, Conservation, and Renewable Sources

ABSTRACT

BIOGRAPHY

Technical Session D2-S3-T1: Water Security-Supply, Demand, Conservation, and Quality Improvement/Assurance

Session Chair

BIOGRAPHY

Technical Session D2-S3-T1: Water Security-Supply, Demand, Conservation, and Quality Improvement/Assurance

ABSTRACT

BIOGRAPHY

Technical Session D2-S3-T1: Water Security-Supply, Demand, Conservation, and Quality Improvement/Assurance

ABSTRACT

BIOGRAPHY

Technical Session D2-S3-T1: Water Security-Supply, Demand, Conservation, and Quality Improvement/Assurance

ABSTRACT

BIOGRAPHY

Technical Session D2-S3-T1: Water Security-Supply, Demand, Conservation, and Quality Improvement/Assurance

ABSTRACT

BIOGRAPHY

Technical Session D2-S4-T1: Systems Informatics and Analytics-Climate Change, Sustainability, Productivity, Competitiveness, Intelligence, and Nexus of Food/Energy/Water Systems (FEWS)

Session Chair

BIOGRAPHY

Technical Session D2-S4-T1: Systems Informatics and Analytics-Climate Change, Sustainability, Productivity, Competitiveness, Intelligence, and Nexus of Food/Energy/Water Systems (FEWS)

ABSTRACT

BIOGRAPHY

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ABSTRACT

BIOGRAPHY

Technical Session D2-S4-T1: Systems Informatics and Analytics-Climate Change, Sustainability, Productivity, Competitiveness, Intelligence, and Nexus of Food/Energy/Water Systems (FEWS)

ABSTRACT

BIOGRAPHY

Technical Session D2-S4-T1: Systems Informatics and Analytics-Climate Change, Sustainability, Productivity, Competitiveness, Intelligence, and Nexus of Food/Energy/Water Systems (FEWS)

ABSTRACT

BIOGRAPHY

Technical Session D2-S1-T2: Food Security and Safety-Plant/Animal Production, Protection, Processing, Distribution, Utilization, and Resource Recovery

Session Chair

BIOGRAPHY

Technical Session D2-S1-T2: Food Security and Safety-Plant/Animal Production, Protection,
Processing, Distribution, Utilization, and Resource Recovery

ABSTRACT

BIOGRAPHY

Technical Session D2-S1-T2: Food Security and Safety-Plant/Animal Production, Protection, Processing, Distribution, Utilization, and Resource Recovery

ABSTRACT

BIOGRAPHY

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Processing, Distribution, Utilization, and Resource Recovery*

ABSTRACT

BIOGRAPHY

*Technical Session D2-S1-T2: Food Security and Safety-Plant/Animal Production, Protection,
Processing, Distribution, Utilization, and Resource Recovery*

ABSTRACT

BIOGRAPHY

Technical Session D2-S2-T2: Energy Security-Supply, Demand, Conservation, and Renewable Sources

Session Chair

BIOGRAPHY

Technical Session D2-S2-T2: Energy Security-Supply, Demand, Conservation, and Renewable Sources

ABSTRACT

BIOGRAPHY

Technical Session D2-S2-T2: Energy Security-Supply, Demand, Conservation, and Renewable Sources

ABSTRACT

BIOGRAPHY

Technical Session D2-S2-T2: Energy Security-Supply, Demand, Conservation, and Renewable Sources

ABSTRACT

BIOGRAPHY

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ABSTRACT

BIOGRAPHY

Technical Session D2-S2-T2: Energy Security-Supply, Demand, Conservation, and Renewable Sources

ABSTRACT

BIOGRAPHY

Technical Session D2-S3-T2: Water Security-Supply, Demand, Conservation, and Quality Improvement/Assurance

Session Chair

ABSTRACT

BIOGRAPHY

Technical Session D2-S3-T2: Water Security-Supply, Demand, Conservation, and Quality Improvement/Assurance

ABSTRACT

BIOGRAPHY

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ABSTRACT

BIOGRAPHY

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ABSTRACT

BIOGRAPHY

Technical Session D2-S3-T2: Water Security-Supply, Demand, Conservation, and Quality Improvement/Assurance

ABSTRACT

BIOGRAPHY

Technical Session D2-S4-T2: Systems Informatics and Analytics-Climate Change, Sustainability, Productivity, Competitiveness, Intelligence, and Nexus of Food/Energy/Water Systems (FEWS)

Session Chair

BIOGRAPHY

Technical Session D2-S4-T2: Systems Informatics and Analytics-Climate Change, Sustainability, Productivity, Competitiveness, Intelligence, and Nexus of Food/Energy/Water Systems (FEWS)

ABSTRACT

BIOGRAPHY

Technical Session D2-S4-T2: Systems Informatics and Analytics-Climate Change, Sustainability, Productivity, Competitiveness, Intelligence, and Nexus of Food/Energy/Water Systems (FEWS)

ABSTRACT

BIOGRAPHY

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ABSTRACT

BIOGRAPHY

Technical Session D2-S4-T2: Systems Informatics and Analytics-Climate Change, Sustainability, Productivity, Competitiveness, Intelligence, and Nexus of Food/Energy/Water Systems (FEWS)

ABSTRACT

BIOGRAPHY

Student Poster Competition

Session Chair

BIOGRAPHY

Student Poster Competition

ABSTRACT

BIOGRAPHY

Technical Session D2-S1-T3: Food Security and Safety-Plant/Animal Production, Protection, Processing, Distribution, Utilization, and Resource Recovery

Session Chair

BIOGRAPHY

*Technical Session D2-S1-T3: Food Security and Safety-Plant/Animal Production, Protection,
Processing, Distribution, Utilization, and Resource Recovery*

ABSTRACT

BIOGRAPHY

*Technical Session D2-S1-T3: Food Security and Safety-Plant/Animal Production, Protection,
Processing, Distribution, Utilization, and Resource Recovery*

ABSTRACT

BIOGRAPHY

Technical Session D2-S1-T3: Food Security and Safety-Plant/Animal Production, Protection,
Processing, Distribution, Utilization, and Resource Recovery

ABSTRACT

BIOGRAPHY

*Technical Session D2-S1-T3: Food Security and Safety-Plant/Animal Production, Protection,
Processing, Distribution, Utilization, and Resource Recovery*

ABSTRACT

BIOGRAPHY

Technical Session D2-S2-T3: Energy Security-Supply, Demand, Conservation, and Renewable Sources

Session Chair

BIOGRAPHY

Technical Session D2-S2-T3: Energy Security-Supply, Demand, Conservation, and Renewable Sources

ABSTRACT

BIOGRAPHY

Technical Session D2-S2-T3: Energy Security-Supply, Demand, Conservation, and Renewable Sources

ABSTRACT

BIOGRAPHY

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ABSTRACT

BIOGRAPHY

Technical Session D2-S2-T3: Energy Security-Supply, Demand, Conservation, and Renewable Sources

ABSTRACT

BIOGRAPHY

Technical Session D2-S3-T3: Water Security-Supply, Demand, Conservation, and Quality Improvement/Assurance

Session Chair

BIOGRAPHY

Technical Session D2-S3-T3: Water Security-Supply, Demand, Conservation, and Quality Improvement/Assurance

ABSTRACT

BIOGRAPHY

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ABSTRACT

BIOGRAPHY

Technical Session D2-S4-T3: Systems Informatics and Analytics-Climate Change, Sustainability, Productivity, Competitiveness, Intelligence, and Nexus of Food/Energy/Water Systems (FEWS)

Session Chair

BIOGRAPHY

Technical Session D2-S4-T3: Systems Informatics and Analytics-Climate Change, Sustainability, Productivity, Competitiveness, Intelligence, and Nexus of Food/Energy/Water Systems (FEWS)

ABSTRACT

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Technical Session D2-S4-T3: Systems Informatics and Analytics-Climate Change, Sustainability, Productivity, Competitiveness, Intelligence, and Nexus of Food/Energy/Water Systems (FEWS)

ABSTRACT

BIOGRAPHY

Technical Session D2-S1-T4: Food Security and Safety-Plant/Animal Production, Protection, Processing, Distribution, Utilization, and Resource Recovery

Session Chair

BIOGRAPHY

*Technical Session D2-S1-T4: Food Security and Safety-Plant/Animal Production, Protection,
Processing, Distribution, Utilization, and Resource Recovery*

ABSTRACT

BIOGRAPHY

*Technical Session D2-S1-T4: Food Security and Safety-Plant/Animal Production, Protection,
Processing, Distribution, Utilization, and Resource Recovery*

ABSTRACT

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ABSTRACT

BIOGRAPHY

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Processing, Distribution, Utilization, and Resource Recovery*

ABSTRACT

BIOGRAPHY

Technical Session D2-S2-T4: Energy Security-Supply, Demand, Conservation, and Renewable Sources

Session Chair

BIOGRAPHY

Technical Session D2-S2-T4: Energy Security-Supply, Demand, Conservation, and Renewable Sources

ABSTRACT

BIOGRAPHY

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ABSTRACT

BIOGRAPHY

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ABSTRACT

BIOGRAPHY

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ABSTRACT

BIOGRAPHY

Technical Session D2-S3-T4: Water Security-Supply, Demand, Conservation, and Quality Improvement/Assurance

Session Chair

BIOGRAPHY

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ABSTRACT

BIOGRAPHY

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ABSTRACT

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