

# Program Outline

## Second NAPA Biennial International Scientific Conference

### DAY 1: Friday, September 25

### Inaugural and Plenary Session

Timeframe: 9:00 AM – 1:00 PM EST

Nepal Time: 6:45 PM – 10:45 PM

**Moderator:** Santosh Dhakal

**Technical Coordinator:** Ananta Acharya

| Time  | Program   | Speaker   |
|-------|---|---|
| 9:00  | Conference Start/Opening  | Santosh Dhakal<br>Conference Secretary and Treasurer, NAPA  |
| 9:05  | Inaugural Remarks   | His Excellency Ambassador<br>Arjun K. Karki<br>Ambassador of Nepal to the US                          |
| 9:35  | Conference Journey  | Lila B. Karki<br>Conference Chair & Immediate Past<br>President, NAPA                                 |
| 9:50  | Welcome Remarks   | Megha N. Parajulee<br>President, NAPA   |
| 10:00 | Keynote Presentation<br><i>Forest Farming and Medicinal<br/>Plants for Sustaining Small<br/>Landowners: Scope and Opportunities</i>       | Srinivasa Rao Mentreddy<br>Professor<br>Alabama Agricultural & Mechanical<br>University, Alabama, USA |
| 11:05 | Break/NAPA Highlights   |   |
| 11:10 | Keynote Presentation<br><i>Impact of COVID -19 on Socio-<br/>Economic Transformation of Nepal:<br/>Recovery Strategies and Challenges</i> | Ram Kumar Phuyal<br>Honorable Member<br>National Planning Commission, Nepal                           |
| 12:10 | Invited Presentation:<br><i>Youth and Agriculture: Challenges &amp;<br/>Opportunities</i>   | Kiran Ojha<br>NAPA Liaison, Nepal<br>Country Director, Lutheran World Relief,<br>Nepal                |
| 12:40 | Scientific presentations at the<br>conference   | Manoj Karkee<br>Chair, Scientific Committee, NAPA   |
| 12:50 | Zoom Technology/Information   | Ananta Acharya<br>Chair, Information and Technology, NAPA   |
| 12:55 | Adjourn   | Ramjee Ghimire<br>General Secretary, NAPA   |

1:00 PM

End of the Day 1 Program

# Program Outline

## Second NAPA Biennial International Scientific Conference

### September 25-28, 2020

**SUMMARY PRESENTATION TABLE**

| Day  | 9-10 AM EST<br>Nepal time: 6:45-7:45 PM | 10-11 AM EST<br>Nepal time: 7:45-8:45 PM | 11 AM-12 PM EST<br>Nepal time: 8:45-9:45 PM | 12-1 PM EST<br>Nepal time: 9:45-10:45 PM |
|--|---|--|---|--|
| <b>SATURDAY,<br/>26<sup>th</sup><br/>September,<br/>2020</b> | <b>SLOT 1</b>                           | <b>SLOT 2</b>                            | <b>SLOT 3</b>                               | <b>SLOT 4</b>                            |
|  | 1A: Professional Oral (4)               | 2A: Professional Oral (5)                | 3A: Professional Oral (4)                   | 4A: Professional Oral (5)                |
|  | 1B: Student Oral (5)                    | 2B: Ag Poem                              | 3B: Student Oral (4)                        | 4B: Student Oral (4)                     |
|  | 1C: Student Poster (7)                  | 2C: Entrepreneur's Roundtable            | 3C: Student Poster (7)                      | 4C: NAPA Strategic Roundtable            |
| Day  | 9-10 AM EST<br>Nepal time: 6:45-7:45 PM | 10-11 AM EST<br>Nepal time: 7:45-8:45 PM | 11 AM-12 PM EST<br>Nepal time: 8:45-9:45 PM | 12-1 PM EST<br>Nepal time: 9:45-10:45 PM |
| <b>SUNDAY,<br/>27<sup>th</sup><br/>September,<br/>2020</b>   | <b>SLOT 5</b>                           | <b>SLOT 6</b>                            | <b>SLOT 7</b>                               | <b>SLOT 8</b>                            |
|  | 5A: Professional Oral (5)               | 6A: Professional Oral (4)                | 7A: Professional Oral (5)                   | 8A: Professional Oral (5)                |
|  | 5B: Student Poster (7)                  | 6B: Student Poster (7)                   | 7B: Student Rapid-Fire (12)                 | 8B: WAAP's Roundtable                    |
|  | 5C: Student Oral (5)                    | 6C: Ag Poem                              | 7C: Student Oral (4)                        | 8C: Professional Poster (4)              |

**Note: Numbers in the parentheses indicate number of presentations in each session**

| Color legend              |
|---------------------------|
| Professional Oral         |
| Professional Poster       |
| Student Oral              |
| Student Poster            |
| Student Rapid-Fire        |
| WAAP's Roundtable         |
| Ag. Poem                  |
| Entrepreneur's Roundtable |
| NAPA Strategic Roundtable |

# Scientific Presentations

**DAY 2: Saturday, September 26**

Chair: Manoj Karkee, Washington State University, USA

## SLOT: 1

Timeframe: 09:00 AM – 10:00 AM EST (6:45 – 7:45 PM Nepal Time)

### **Concurrent Session: Agricultural/Applied Economics: 1A**

Moderator: Nilhari Neupane, ICIMOD, Nepal

Technical Coordinator: Pramod Pokhrel

| Time  | ID  | Topic   |
|-------|-----|---|
| 09:00 | 199 | Biodiversity-based Value Chain Development of Traditional Crops for Nutrition Sensitive Agriculture in Nepal<br>Devendra Gauchan<br>Biodiversity International, Kathmandu, Nepal  |
| 09:10 | 105 | Payments for Begnas Lake Watershed Services in Kaski District Nepal<br>Thaneshwar Bhandari<br>Tribhuvan University, Lamjung Campus, Nepal   |
| 09:20 | 207 | Economic Potential of Specialty Vegetable – Bitter Melon in the Southeast USA<br><sup>1</sup> Lila Karki, <sup>1</sup> Uma Karki, <sup>3</sup> Srinivasa R. Mentreddy<br><sup>2</sup> Alabama A&M University, Alabama, USA  |
| 09:30 | 04  | Analysis of Technical and Economic Efficiency of Soil Fertility Management Practices in Maize Farming in Northern Benin<br><sup>1</sup> Jacob Afouda Yabi, <sup>1</sup> Victorine Olodo, <sup>1</sup> Innocent Labiyi, <sup>2</sup> Lila B. Karki<br><sup>1</sup> University of Parakou, Benin Republic<br><sup>2</sup> Tuskegee University, Alabama, USA |
| 09:40 |     |   |
| 09:50 |     | Q & A Combined Session  |

### **Concurrent Session: Student Competitive Oral – 1B**

Moderator: Aditya R. Khanal, Tennessee State University, Tennessee

Technical Coordinator: Asmita Nagila

| Time  | ID  | Topic   |
|-------|-----|---|
| 09:00 | 101 | Molecular Mapping of Quantitative Trait Loci for Fusarium Head Blight Resistance in the Brazilian Spring Wheat Cultivar 'Surpresa'<br>Bikash Poudel, Krishna D. Puri, Yueqiang Leng, Joseph Mullins, Anil Karmacharya, Yuan Liu, Justin Hegstad, Xuehui Li, Kishore Chittem, Shaobin Zhong<br>North Dakota State University, Fargo, North Dakota, USA |

| Time  | ID  | Topic   |
|-------|-----|---|
| 09:10 | 118 | Energy Use, GHG Emission and Global Warming Potential for Spring Paddy Production in Jhapa District Nepal<br>Padam Prasad Paudel<br>Tribhuvan University, Dharan, Nepal   |
| 09:20 | 122 | Diversity of Fusarium Fungi Causing Fusarium Head Blight (FHB) of Wheat in Georgia<br>Bikash Ghimire, Mohamed Mergoum, John Youmans, Alfredo D. Martinez, James W. Buck<br>University of Georgia, Griffin Campus, Griffin, Georgia, USA   |
| 09:30 | 151 | Production and Marketing of Ginger: A Case Study in Salyan District, Nepal<br><sup>1</sup> Shristi Upadhyaya, <sup>1</sup> O. P. Singh, <sup>2</sup> Lila B. Karki, <sup>3</sup> Raj Kumar Adhikari<br><sup>1</sup> Agriculture and Forestry University, Rampur, Chitwan, Nepal<br><sup>2</sup> Tuskegee University, Cooperative Extension, Tuskegee, Alabama, USA<br><sup>3</sup> Himalayan College of Agricultural Science and Technology, Kathmandu, Nepal |
| 09:40 | 109 | Farmers' Willingness to Pay for Crop Insurance in Nepal<br><sup>1</sup> Bibek Sapkota, <sup>1</sup> Maria Fay Rola-Rubze, <sup>1</sup> Michael Burton, <sup>2</sup> Roy Murray-Prior<br><sup>1</sup> The University of Western Australia, Perth, Australia,<br><sup>2</sup> Agribiz RD&E Services, Yungaburra, Queensland, Australia  |
| 09:50 |     | Q & A Combined Session  |

### Concurrent Session: Student Competitive Poster – 1C

Moderator: Rajan Ghimire, New Mexico State University, USA

Technical Coordinator: Mahesh KC

| Time | ID  | Topic  |
|------|-----|--|
| 9:00 | 210 | Ethnoveterinary Practices among Small Scale Goat Farmers of Nawalpur, Nepal<br><sup>1</sup> Sachin Regmi, <sup>1</sup> Mohan Sharma, <sup>2</sup> Santosh Dhakal, <sup>1</sup> Bal Krishna Pandey<br><sup>1</sup> Agriculture and Forestry University, Rampur, Chitwan, Nepal<br><sup>2</sup> Johns Hopkins University, Maryland, USA  |
| 9:05 | 13  | In-vitro Screening on Germination and Seedling Growth of Wheat ( <i>Triticum aestivum</i> ) Genotypes for Drought Tolerance<br>Aakriti Khanal, Sumitra Pantha, Dhruba B. Thapa, Ankur Paudel<br>Nepal Agricultural Research Council, Khumaltar, Nepal  |
| 9:10 | 218 | Status of Veterinary Vaccine Production in Nepal<br><sup>1</sup> Uddab Poudel, <sup>2</sup> Umesh Dahal, <sup>2</sup> Saroj Chaudhari, <sup>3</sup> Santosh Dhakal<br><sup>1</sup> Institute of Agriculture and Animal Sciences, Tribhuvan University, Paklihawa, Rupandehi, Nepal<br><sup>2</sup> Department of Livestock Services, Kathmandu, Nepal<br><sup>3</sup> Johns Hopkins Bloomberg School of Public Health, Maryland, USA |
| 9:15 | 226 | Comparing Fruit Characteristics of KSU Pawpaw Cultivars with Commercially Available Cultivars<br>Anju Chaudhary, Manisha Hamal, Jeremiah Lowe, Sheri Crabtree, Kirk W. Pomper  |

| Time | ID  | Topic  |
|------|-----|--|
|      |     | Kentucky State University, Frankfort, Kentucky, USA  |
| 9:20 | 149 | Analyzing Determinants of Adaptation to Flood in Eastern Nepal Using Parametric and Semiparametric Approach<br>Santosh Pathak<br>Louisiana State University, Baton Rouge, Louisiana, USA   |
| 9:25 | 148 | Chyangra and Chyangra Fibre: Current Status and Future Prospects<br><sup>1, 2</sup> Saroj Sapkota, <sup>2</sup> Neena Amatya Gorkhali, <sup>3</sup> Deepak Adhikari, <sup>1</sup> Nirajan Bhattarai<br><sup>1</sup> Department of Animal Breeding and Biotechnology, Agriculture and Forestry University, Chitwan, Nepal<br><sup>2</sup> Animal Breeding Division, Nepal Agricultural Research Council, Khumaltar, Lalitpur, Nepal<br><sup>3</sup> Swine and Avian Research Program, Nepal Agricultural Research Council, Khumaltar, Lalitpur, Nepal |
| 9:30 | 229 | CRISPR/Cas9 Mediated Genome Editing of CPC TRY in Soybean<br>Asmita Devkota<br>Tennessee State University, Nashville, Tennessee, USA   |
| 9:35 |     | Q & A Combined Session   |

### **SLOT: 2**

Timeframe: 10:00 AM – 11:00 AM EST (7:45 – 8:45 PM Nepal Time)

### **Concurrent Session: Agricultural Education, Extension, & Outreach – 2A**

Moderator: Basu Deb Bhandari, Comerica Bank, USA

Technical Coordinator: Pramod Pokhrel

| Time  | ID  | Topic   |
|-------|-----|---|
| 10:00 | 159 | Need for Financial Education in High School Curricula: A Case of Rural Nepal<br>Lila B. Karki, Uma Karki<br>Tuskegee University, Alabama, USA   |
| 10:10 | 14  | Roadmap for Agriculture Education under the New Federal System of Nepal<br><sup>1</sup> Mahesh Jaishi, <sup>2</sup> Megha N. Parajulee<br><sup>1</sup> Lamjung Campus, Tribhuvan University, Nepal<br><sup>2</sup> Texas A&M University, Texas, USA |
| 10:20 | 230 | Revamping Agriculture Service Delivery Mechanism in Nepal<br>Ramjee Ghimire, Nanda Joshi<br>Michigan State University, Michigan, USA  |
| 10:30 | 170 | Database of Women in Agricultural and Allied Professions and Future Direction<br><sup>1</sup> Prakriti Bista, <sup>2</sup> Ambika Tiwari, <sup>3</sup> Shristi Ghimire, <sup>4</sup> Ranjana Rawal<br><sup>1</sup> Clovis, New Mexico, USA          |

|       |     |   |
|-------|-----|---|
|       |     | <sup>2</sup> Mississippi State University, Stoneville, Mississippi, USA<br><sup>3</sup> The Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland, USA   |
| 10:40 | 198 | Students' Preference for and Perception of Agricultural Education: A Case of Rural Nepal<br><br><sup>1</sup> Lila B. Karki, <sup>1</sup> Uma Karki, <sup>2</sup> Ganesh Joshi, <sup>3</sup> Jacob Yabi<br><sup>1</sup> Tuskegee University, Alabama, USA<br><sup>2</sup> Commission for Investigation of Abuse of Authority, Nepal<br><sup>3</sup> University of Parakou, Benin |
| 10:50 |     | Q & A Combined Session  |

**Concurrent Session: Agri-Poem Recitation: – 2B**  
Moderator: Ambika Tiwari, Mississippi State University, USA  
Technical Coordinator: Bishwoyog Bhattarai

**Concurrent Session: Entrepreneurs' Roundtable– 2C**  
Moderator: Purna Kandel, LIAM International Corporation, Canada  
Technical Coordinator: Ananta Acharya

**SLOT: 3**  
Timeframe: 11:00 AM – 12:00 PM EST (8:45 – 9:45 PM Nepal Time)

**Concurrent Session: Agriculture Policy and Planning – 3A**  
Moderator: Manoj Karkee, Washington State University, USA  
Technical Coordinator: Pramod Pokhrel

| Time  | ID  | Topic  |
|-------|-----|--|
| 11:00 | 150 | Agricultural Productivity Growth in Nepal: Potentials, Trend and Determinants<br><br><sup>1</sup> Ganesh R. Joshi, <sup>2</sup> Narayan B Joshi, <sup>3</sup> Lila B. Karki<br><sup>1</sup> Central Department of Environmental Sciences, Tribhuvan University, Kathmandu, Nepal<br><sup>2</sup> Sustainable Research & Development Center, Kathmandu, Nepal<br><sup>3</sup> Tuskegee University, Alabama, USA |
| 11:10 | 03  | Agriculture Policy of South Asia: Pathways for 2020-30<br>Y. B. Thapa<br>Poverty Alleviation Fund, Nepal   |
| 11:20 | 27  | Opportunity and Constraints of Agriculture Development in Nepal<br>Maha Prasad Gelal<br>Atlanta, Georgia, USA  |

|       |    |   |
|-------|----|---|
| 11:30 | 05 | Food, Water, and Energy Nexus Development Planning Framework: A Basis for Sustainable Development and Food Security in Nepal - May need to go to policy<br>Gopi Upreti<br>ManTech International Corporation, Fairfax, Virginia, USA |
| 11:40 |    |   |
| 11:50 |    | Q & A Combined Session  |

**Concurrent Session: Student Competitive Oral – 3B**  
Moderators: Aditya R. Khanal, Tennessee State University, Tennessee  
and Shubhechcha Sharma, Michigan State University  
Technical Coordinator: Asmita Nagila

| Time  | ID  | Topic  |
|-------|-----|--|
| 11:00 | 156 | Biological Control of <i>Sclerotium rolfsii</i> and Growth Promotion of Sweet Pepper by Selected Bacillus Species<br>Bandana Bhusal, Margaret T. Mmbaga<br>Tennessee State University, Nashville, Tennessee, USA   |
| 11:10 | 178 | Time-course Analysis of Physiological and Molecular Traits Associated with Efficient Nitrogen Uptake and Transport in Wheat<br>Suman Lamichhane<br>Department of Crop and Environmental Sciences, Blacksburg, Virginia, USA  |
| 11:20 | 147 | Biotic and Abiotic Stress Conditions and Rice Production Efficiency: Evidence from Nepal<br><sup>1</sup> Sudip Adhikari, <sup>1</sup> Aditya Khanal, <sup>2</sup> Gokul Poudel<br><sup>1</sup> College of Agriculture, Tennessee State University, Nashville, Tennessee, USA<br><sup>2</sup> International Maize and Wheat Improvement Center (CIMMYT), South Asia office, Kathmandu, Nepal  |
| 11:30 | 161 | Varietal Screening of Okra ( <i>Abelmoschus esculentus</i> L. Moench) Against Okra Yellow Vein Mosaic Virus (OYVMV) Under Different Management Practices in the Institute of Agriculture and Animal Science (IAAS), Paklihawa Campus, Rupandehi, Nepal<br><sup>1</sup> A. Chaudhary, <sup>1</sup> K. Poudel, <sup>1</sup> N. Ghimire, <sup>1</sup> S. Ghimire, <sup>2</sup> R. Poudel, <sup>3</sup> A. Pandey<br><sup>1</sup> Kentucky State University, Kentucky, USA<br><sup>2</sup> Tribhuvan University, Kathmandu, Nepal<br><sup>3</sup> Tennessee State University, Tennessee, USA |
| 11:40 |     | Q & A Combined Session   |

**Concurrent Session: Student Competitive Poster – 3C**  
Moderator: Rajan Ghimire, New Mexico State University, USA  
Technical Coordinator: Mahesh KC

| Time  | ID  | Topic  |
|-------|-----|--|
| 11:00 | 168 | Vegetable Grafting: Uses, Outlook and Opportunities for Nepal<br>Sudarshan Kharal, Arjun Kumar Shrestha<br>Agriculture and Forestry University, Chitwan, Nepal   |
| 11:05 | 134 | Identification of Potential Overwintering Host of Cotton Leaf Roll Dwarf Virus in Georgia<br>Nabin Prasad Sedhain, Sudeep Bag, Jared Whitaker, Ping Chee, Phillip Roberts, Robert Kemerait<br>University of Georgia, Tifton, Georgia, USA  |
| 11:10 | 138 | Varietal Evaluation of Promising Maize Genotypes in Mid Hills of Nepal<br><sup>1</sup> Bipin Neupane, <sup>1</sup> Ankur Poudel, <sup>2</sup> Pradeep Wagle<br><sup>1</sup> Institute of Agriculture and Animal Science, Lamjung Campus, Lamjung, Nepal<br><sup>2</sup> USDA, Agricultural Research Service, Grazingland Research Laboratory, El Reno, Oklahoma, USA   |
| 11:15 | 152 | Sprouting and Canopy Development Pattern of Browse Species Suitable for Grazing Small Ruminants<br><sup>1</sup> Bidur Paneru, <sup>2</sup> Shailes Bhattra, <sup>1</sup> Nevershi Ellis, <sup>1</sup> Uma Karki<br><sup>1</sup> Department of Agricultural and Environmental Sciences, Tuskegee University, Tuskegee, Alabama, USA<br><sup>2</sup> University of Georgia, Athens, Georgia, USA   |
| 11:20 | 157 | Weed Control in Cutting Propagation of Nursery Crops<br>Isha Poudel, Anthony Witcher<br>Tennessee State University, Nashville, Tennessee, USA  |
| 11:25 | 158 | Exploring Hidden Root Traits for Improving Spring Wheat in the Pacific Northwest<br><sup>1</sup> Bikash Ghimire, <sup>2</sup> Scot H. Hulbert, <sup>3</sup> Camille M. Steber, <sup>3</sup> Kim Garland Campbell, <sup>2</sup> Karen A. Sanguinet<br><sup>1</sup> University of Georgia, Griffin Campus, Griffin, Georgia, USA<br><sup>2</sup> Washington State University, Pullman, Washington, USA<br><sup>3</sup> USDA Agricultural Research Services, Pullman, Washington, USA |
| 11:30 | 167 | Efficacy of Organic and Inorganic Sources of Nitrogen on Growth, Yield, and Quality of Beetroot Varieties in Chitwan, Nepal.<br>Arati Sapkota<br>Agriculture and Forestry University, Rampur, Chitwan, Nepal   |
| 11:35 |     | Q & A Combined Session   |

**SLOT: 4**

Timeframe: 12:00 PM – 1:00 PM EST (9:45 – 10:45 PM Nepal Time)

**Concurrent Session: Seeds, Germplasms, and Food Security: 4A**

Moderator: Dirghajibi Ghimire, University of Michigan, USA

Technical Coordinator: Pramod Pokhrel

| Time  | ID  | Topic   |
|-------|-----|---|
| 12:00 | 21  | <p>Toxin Minimization and Disaster Preparedness Food Technologies<br/>Complement Nutrition, Health Security and Hunger and Poverty Alleviation</p> <p><sup>1</sup>Peetambar Dahal, <sup>2</sup>Meghnath Dhimal, <sup>3</sup>Krishna Belbase, <sup>4</sup>Sundar Tiwari,<br/><sup>4</sup>Ishwari P. Dhakal, <sup>5</sup>Jwala Bajracharya, <sup>5</sup>Sunil Aryal, <sup>5</sup>Tek B. Gurung,<br/><sup>6</sup>Achyut Sharma, <sup>7</sup>John D. Groopman, <sup>7</sup>Keith West, <sup>1</sup>Christine P. Stewart,<br/><sup>8</sup>Govind Bhandary, <sup>9</sup>Rosina Poudel, <sup>10</sup>Gokarna Gharti-Chhetri, <sup>11</sup>Manish<br/>Neupane, <sup>12</sup>Amod Pokhrel, <sup>13</sup>John V. Ashbrouck, <sup>1</sup>Elizabeth Mitcham, <sup>1</sup>Kent<br/>Bradford</p> <p><sup>1</sup>University of California, Davis, USA<br/><sup>2</sup>Nepal Health Research Council, Kathmandu, Nepal<br/><sup>3</sup>Nutrition Evaluation Program (Former), UNICEF, New York, USA<br/><sup>4</sup>Agricultural and Forestry University, Chitwan, Nepal<br/><sup>5</sup>Nepal Agricultural Research Council, Lalitpur, Nepal<br/><sup>6</sup>American Mold Experts, Avon, Indiana, USA<br/><sup>7</sup>The Johns Hopkins University, Baltimore, USA<br/><sup>8</sup>Partnership for Sustainable Development, Kathmandu, Nepal<br/><sup>9</sup>Leonard J. Chabert Medical Center, Louisiana, USA<br/><sup>10</sup>Palm Beach State University, Florida, USA<br/><sup>11</sup>Thomas Jefferson University, Pennsylvania, USA<br/><sup>12</sup>University of California, Berkeley, California, USA<br/><sup>13</sup>Rhino Research, Bangkok, Thailand</p> |
| 12:10 | 155 | <p>Decline of Agropastoralism in the Upper Gandaki River Basin: Food Security<br/>and Livelihood Diversification Implications</p> <p>Milan Shrestha<br/>School of Sustainability, Arizona State University, Tempe, Arizona, USA</p>   |
| 12:20 | 216 | <p>Development of Community-Based Eco-Farming as a Center of Excellence</p> <p><sup>1</sup>Sadhuram Singh Basnyat, <sup>2</sup>Tilak Bhandari<br/><sup>1</sup>Kanjirowa Agro Consultant Pvt Ltd (KACPL), Kathmandu, Nepal<br/><sup>2</sup>Institute of Rubber and Jatropha Research-Nepal (IRJR-N), USA</p>   |
| 12:30 | 144 | <p>Seed Yield and Profit of Wheat Seed Varieties Collected from Farmers and<br/>Government Sector of Nepal</p> <p>Birendra K. Bhattachan, Amit Timilsina<br/>Agriculture and Forestry University, Rampur, Chitwan, Nepal</p>  |
| 12:40 | 165 | <p>Seed Yield Performance of Rainfed Upland Rice Varieties Under Organic and<br/>Inorganic Fertilizer in Chitwan, Nepal</p> <p>Birendra Kumar Bhattachan<br/>Agriculture and Forestry University, Rampur, Chitwan, Nepal</p>  |

| Time  | ID  | Topic   |
|-------|-----|---|
|       | 166 | Grain Yield Performance of Ramdhan Rice Under Different Date of Transplanting and Age of Seedlings in Rampur Chitwan Nepal<br>Birendra Kumar Bhattachan<br>Agriculture and Forestry University, Rampur, Chitwan Nepal |
| 12:50 |     | Q & A Combined Session  |

**Concurrent Session: Student Competitive Oral – 4B**  
Moderator: Aditya R. Khanal, Tennessee State University, Tennessee  
Technical Coordinator: Asmita Nagila

| Time  | ID  | Topic  |
|-------|-----|--|
| 12:00 | 184 | Characterization of hyper-virulent mutants of soft rot pathogen-<br><i>Pectobacterium carotovorum</i><br>Bimala Acharya, Korsi Dumenyo<br>Department of Agricultural and Environmental Sciences, Tennessee State University, Nashville, Tennessee, USA |
| 12:10 | 193 | Potential of Beneficial Trichoderma isolates in Alleviating Drought Stress in Tomato<br><sup>1</sup> Ranjana Rawal, Joseph Scheerens, Maria Soledad Benitez Ponce<br>The Ohio State University, Wooster, Ohio, USA                                     |
| 12:20 | 197 | Evaluation of Row Covers in Yield Performance of the Leafy Green Vegetables in Organic Management System<br>Kripa Dhakal<br>Department of Agricultural and Environmental Sciences, Tennessee State University, Nashville, Tennessee, USA               |
| 12:30 | 196 | Screening and evaluation of multi-parental rice genotypes for seedling stage salinity tolerance<br>Sandeep Chapagain, Prasanta K. Subudhi<br>Louisiana State University, Baton Rouge, Louisiana, USA   |
| 12:40 |     | Q & A Combined Session   |

**NAPA Strategic Visioning Roundtable – 4C**  
NAPA's Accomplishment, Expectation, Networking, Contribution, & Strategy  
Moderators: Lila B. Karki/Megha N. Parajulee  
Technical Coordinator: Dev Paudel

End of the Day 2 Program

# Scientific Presentation

**DAY 3: Sunday, September 27**

Chair: Manoj Karkee, Washington State University, USA

## **SLOT: 5**

Timeframe: 09:00 AM – 10:00 PM EST (6:45 – 7:45 PM Nepal Time)

### **Concurrent Session: Crop and Soil Sciences I – 5A**

Moderator: Rajen Bajgain, USDA-ARS, USA

Technical Coordinator: Pramod Pokhrel

| Time  | ID  | Topic  |
|-------|-----|--|
| 09:00 | 140 | Multi-Year Prediction of Rice and Wheat Yields Over Changing Agro-Climatic Scenarios in Nepalese Central Terai Using DSSAT Ver 4.7 Crop Model<br><sup>1</sup> Lal. P. Amgain, <sup>2</sup> Devi Dhakal, <sup>2</sup> Sailesh Adhikari, <sup>3</sup> Saurav Suman<br><sup>1</sup> Far-western University, Tikapur Kailali, Nepal<br><sup>2</sup> Tribhuvan University, Kirtipur, Kathmandu, Nepal<br><sup>3</sup> Agriculture and Food Security Program, World Food Organization, Nepal |
| 09:10 | 139 | Analyzing Soil Nutrient Balance in Hills of Nepal: Do Socio-economic Factors Matter for Sustainable Land Use?<br>Romy Das Karna<br>Salem College, Winston-Salem, North Carolina, USA   |
| 09:20 | 222 | Elucidating the Effects of Organic Vs Conventional Cropping Practice and Rhizobia Inoculation on Peanut Yield and Rhizosphere Microbial Diversity.<br>Dev Paudel, Liping Wang, Janam Acharya, Cleber Henrique Lopes de Souza, Esteban Rios, Jianping Wang<br>Agronomy Department, University of Florida, Gainesville, Florida, USA   |
| 09:30 | 123 | Examining the Factors Influencing Contract Farming Choice Decisions of Ginger Growers in Nepal<br><sup>1</sup> Aditya R. Khanal, <sup>2</sup> Ashok Mishra, <sup>1</sup> Sudip Adhikari, and <sup>3</sup> Anjani Kumar<br><sup>1</sup> Tennessee State University, Tennessee, USA<br><sup>2</sup> Arizona State University, Arizona, USA<br><sup>3</sup> International Food Policy Research Institute, South Asia Office, New Delhi, India   |
| 09:40 | 26  | Status of Large Cardamom Cultivation in Nepal<br>Dol P. Dhakal, Megha N. Parajulee<br>Texas A&M AgriLife Research and Extension Center, Lubbock Texas, USA   |
| 09:50 |     | Q & A Combined Session   |

### Concurrent Session: Student Competitive Poster – 5B

Moderators: Rajan Ghimire, New Mexico State University, USA  
and Ranjana Rawal, The Ohio State University, USA

Technical Coordinator: Mahesh KC

| Time | ID  | Topic  |
|------|-----|--|
| 9:00 | 10  | Agronomic Performance of Maize Hybrid Cultivars Under Different Plant Densities in Spring Season in Dang, Nepal<br><sup>1</sup> Rupak Karn, <sup>1</sup> Shrawan Kumar Sah, <sup>1</sup> Puspa Raj Dulal, <sup>2</sup> Nityananda Khanal<br><sup>1</sup> Agriculture and Forestry University, Rampur, Chitwan, Nepal<br><sup>2</sup> Agriculture and Agri-Food Canada, Alberta, Canada |
| 9:05 | 15  | Adoption of Recommended Production Practices of Cardinal Variety of Potato in Dadeldhura, Nepal<br>Sangam Panta, Dipika Parajulee, Udit Prakash Sigdel<br>Agriculture and Forestry University, Rampur, Chitwan, Nepal  |
| 9:10 | 145 | Growth and Profitability of Maize ( <i>Zea Mays</i> L.) Under Different Organic and Inorganic Nutrient Management in Chitwan, Nepal.<br>Kailash Raman Bhatt<br>Agriculture and Forestry University, Rampur, Chiwan, Nepal  |
| 9:15 | 164 | Study on Zoonotic Helminths in the Gastrointestinal Tract of Dogs in Kathmandu Valley, Nepal.<br><sup>1</sup> Bibek Bhattachan, <sup>1</sup> Birendra Kumar Bhattachan, <sup>2</sup> A. Jha<br><sup>1</sup> Agriculture and Forestry University Rampur, Chitwan, Nepal<br><sup>2</sup> Central Veterinary Hospital, Tripureshwor Kathmandu Nepal                                       |
| 9:20 | 175 | Impact of Climate Change on Livestock Production in Bharatpur, Chitwan, Nepal<br>Prakash Gurung<br>Agriculture and Forestry University, Rampur, Chitwan, Nepal   |
| 9:25 | 02  | Effect of Site-specific Nutrient Management Approach in Productivity of Spring Rice in Kanchanpur, Nepal<br>Chudamani pant, Pankaj Prasad Joshi<br>Agriculture and Forestry University, Chitwan, Nepal   |
| 9:30 | 07  | Integrated Management of Fruit Borer of Tomato in Nepal<br>Swodesh Rijal, Bhishma Raj Dahal<br>Agriculture and Forestry University, Rampur, Chitwan, Nepal   |
| 9:35 |     | Q & A Combined Session   |

**Concurrent Session: Student Competitive Oral – 5C**  
Moderator: Aditya R. Khanal, Tennessee State University, TN  
Technical Coordinator: Bishwoyog Bhattarai

| Time  | ID  | Topic   |
|-------|-----|---|
| 09:00 | 106 | Machine Vision System for Occlusion Free Robotic Harvesting in Apple Orchards.<br><sup>1</sup> Santosh Bhusal, <sup>2</sup> Or Hirshfeld, <sup>1</sup> Uddhav Bhattarai, <sup>1</sup> Manoj Karkee, <sup>1</sup> Qin Zhang, <sup>2</sup> Avi Kahani<br><sup>1</sup> Washington State University, Prosser, Washington, USA,<br><sup>2</sup> FFRobotics Inc, Israel   |
| 09:10 | 173 | Efficacy of Botanicals for Management of Green Mould Disease ( <i>Trichoderma spp.</i> ) In Oyster Mushroom ( <i>Pleurotus Sajor-Caju</i> )<br>Gaurav Adhikari, Ashutosh Poudel, Anish Bhattarai, Kriti Poudel, Dikshya Sapkota, Ritesh Kumar Yadav<br>Department of Plant Pathology, Agriculture and Forestry University, Chitwan, Nepal   |
| 09:20 | 209 | Efficacy of Sulfur and Copper as Fungicides to Control Pawpaw Leaf and Fruit Spot.<br><sup>1</sup> Manisha Hamal, <sup>2</sup> Sijan Pandit, <sup>1</sup> Jeremy Lowe, <sup>1</sup> Sheri Crabtree, <sup>1</sup> Kirk W. Pomper<br><sup>1</sup> Horticulture Department, Kentucky State University, Frankfort, Kentucky, USA<br><sup>2</sup> Department of Pathology, University of Lethbridge, Lethbridge, Alberta, Canada |
| 09:30 | 132 | Combined Effects of Inundative Biocontrol and Anaerobic Soil Disinfestation Using Non-Host Cover Crops as Carbon Sources for Clubroot Management in Mustard Greens<br>Ram B. Khadka, Sally A. Miller<br>The Ohio State University, Ohio Agricultural Research and Development Center, Wooster, Ohio, USA  |
| 09:40 | 227 | Assessment of Urban Heat Island (UHI) in Relation to Normalized Difference Vegetation Index (NDVI): A Case Study of Bharatpur, Nepal<br>Smriti Kandel, Jeremy Sandifer, Buddhi Gyawali,<br>College of Agriculture Communities and the Environment, Kentucky State University, Frankfort, Kentucky, USA  |
| 09:50 |     | Q & A Combined Session  |

**SLOT: 6**

Timeframe: 10:00 AM – 11:00 AM (7:45 – 8:45 PM Nepal Time)

**Concurrent Session: Animal Science and Veterinary Medicine – 6A**

Moderator: Prafulla Regmi, North Carolina State University, USA

Technical Coordinator: Pramod Pokhrel

| Time  | ID  | Topic  |
|-------|-----|--|
| 10:00 | 219 | Integrating Woodlands and Animal Production: Whole System Approach to Promote the Sustainable Agriculture<br><sup>1</sup> Uma Karki, <sup>1</sup> Bidur Paneru, <sup>2</sup> Shailes Bhattra, <sup>3</sup> Rishi Khatri, <sup>1</sup> Nevershi Ellis, <sup>1</sup> Lila Karki, <sup>5</sup> Sanjok Poudel<br><sup>1</sup> Tuskegee University, Tuskegee, Alabama, USA<br><sup>2</sup> University of Georgia, Athens, Georgia, USA<br><sup>3</sup> Mississippi State University, Starkville, Mississippi, USA <sup>4</sup> Cooperative<br><sup>5</sup> Virginia Polytechnic Institute and State University, Blacksburg, Virginia, USA |
| 10:10 | 121 | Road to Commercialization: Lessons Nepalese Dairy Industry Can Learn from Dairy Farms in the USA<br>Sushil Paudyal<br>Texas A&M University, College Station, Texas, USA  |
| 10:20 | 125 | Progress in Development of Nanoparticle-Based Swine Influenza Vaccines<br><sup>1</sup> Santosh Dhakal, <sup>1</sup> Shristi Ghimire, <sup>2</sup> Renukaradhya Gourapura<br><sup>1</sup> The Ohio State University, USA. Current affiliation: Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland, USA<br><sup>2</sup> Ohio Agricultural Research and Development Center, The Ohio State University, Wooster, Ohio, USA   |
| 10:30 | 08  | Animal Feed Resources and their Management in Nepal<br><sup>1</sup> Netra P. Osti, <sup>2</sup> Naba R. Devkota, <sup>3</sup> Devendra P. Yadav<br><sup>1</sup> National Animal Science Research Institute, Khumaltar, Nepal<br><sup>2</sup> Agriculture and Forestry University, Nepal<br><sup>3</sup> Department of Livestock Service, Nepal   |
| 10:40 |     | Q & A Combined Session   |

**Concurrent Session: Student Competitive Poster - 6B**

Moderators: Rajan Ghimire, New Mexico State University, New Mexico, USA and Kripa Dhakal, Tennessee State University, USA

Technical Coordinator: Mahesh KC

| Time  | ID  | Topic  |
|-------|-----|--|
| 10:00 | 111 | Survey of the Village-Based Indigenous Duck Production Systems in Nawalparasi, Nepal<br>Anju Sharma Chapagain, Prem Lal Mahato, Nirajan Bhattarai<br>Agriculture and Forestry University, Chitwan, Nepal |

| Time  | ID  | Topic  |
|-------|-----|--|
| 10:05 | 129 | Goats' Productivity Status under Small Holder Farmers' Management in Bharatpur, Chitwan, Nepal<br>Bijay Paudel, Gokarna Gautam, Shiva Prasad Bhusal, Sachin Upadhayaya<br>Agriculture and Forestry University, Chitwan, Nepal  |
| 10:10 | 126 | Effects of Planting Depth and Bacillus Subtilis Treatment on Saffron ( <i>Crocus Sativa</i> L.) Production in Green Roof Production System<br>Pradip Poudel, Hideka Kobayashi, Shawn Lucas, Leigh Whittinghill<br>Kentucky State University, Frankfort, Kentucky, USA                                  |
| 10:15 | 183 | Soil Hydraulic Properties in a Plastic Mulch Raised Bed System<br>Mounika Pudota, Michelle Mbia, Srinivasa Rao Mentreddy, Dedrick D. Davis<br>Alabama A&M University, Normal, Alabama, USA   |
| 10:20 | 160 | Functional Relationship Study of Symbiotic Component Doesn't Make Infections with the Endoparasitic Nematode Infection<br>Rishi Khatri, Mandeep Adhikari, Vincent Klink<br><sup>1</sup> Biological Sciences, Mississippi State University, Starkville, Mississippi, USA                                |
| 10:25 | 176 | Agriculture Degree Aspirants in Nepal: Geography and Gender Dimensions<br><sup>1</sup> Dikshit Poudel, <sup>1</sup> Saurav Raj Kunwar, <sup>2</sup> Shweta Ghimire, <sup>2</sup> Keshab Subedi<br><sup>1</sup> University of Georgia, Athens, Georgia, USA<br><sup>2</sup> University of Delaware, USA |
| 10:30 | 130 | NDVI Comparison of Farm Parcel of Owen County, Kentucky<br>Smriti Kandel, Jeremy Sandifer, Manisha Hamal, Anju Chaudhary, Buddhi Gyawali<br>Kentucky State University, Frankfort, Kentucky, USA  |
| 10:35 |     | Q & A Combined Session   |

### Concurrent Session: Agri-Poem Recitation: 6C

Moderator: Ambika Tiwari, Mississippi State University, USA

Technical Coordinator: Bishwoyog Bhattarai

### SLOT: 7

Timeframe: 11:00 AM – 12:00 PM (8:45 – 9:45 PM Nepal Time)

### Concurrent Session: Agribusiness, Plant Protection/Diseases and Pests –7A

Moderators: Devendra Gauchan, Biodiversity International, Nepal  
and Pragyan Gautam Burlakoti, BC Ministry of Agriculture, Canada

Technical Coordinator: Pramod Pokhrel

| Time  | ID  | Topic  |
|-------|-----|--|
| 11:00 | 211 | Agribusiness between Nepal and North America: Trends, Challenges and opportunities<br><sup>1</sup> Purna Kandel, <sup>2</sup> Tulsi Dharel |

| Time  | ID  | Topic  |
|-------|-----|--|
|       |     | <sup>1</sup> Liam International Corporation, Toronto, Canada, <sup>2</sup> Centennial College, Toronto, Canada   |
| 11:10 | 23  | Similarities of Tools Used in Evaluating Biological Control Agents of Forest Pests in Eastern Forests Versus Cotton Pests in Western Cotton Fields<br><sup>1</sup> Abdul Hakeem, <sup>1</sup> Megha Parajulee, <sup>2</sup> Jerome Grant, <sup>2</sup> Paris Lambdin, <sup>2</sup> Frank Hale and <sup>2</sup> Greg Wiggins<br><sup>1</sup> Texas A&M AgriLife Research and Extension Center, Lubbock, Texas, USA<br><sup>2</sup> The University of Tennessee, Knoxville, Tennessee, USA |
| 11:20 | 131 | Ecology and Epidemiological Modeling of Infectious Diseases in the Framework of Sustainable Development of Nepal<br><sup>1</sup> Bhim Chaulagain and <sup>2</sup> Ram Bahadur Khadka<br><sup>1</sup> Oregon State University, Corvallis, Oregon, USA<br><sup>2</sup> The Ohio State University, Wooster, Ohio, USA; Nepal Agricultural Research Council, Nepalgunj, Nepal  |
| 11:30 | 124 | Cannabis as an Economic Crop: Prospect and Possible Use in Nepalese Context - Crop Production<br>Niranjan Aryal<br>Lab Director at Certus Analytics, Murrieta, California, USA   |
| 11:40 | 09  | Photostatis: A Useful Concept for Plant Hardening for Transplant Establishment in Horticultural Operations<br>Nityananda Khanal<br>Agriculture and Agri-Food Canada, Beaverlodge Research Farm, Canada   |
| 11:50 |     | Q & A Combined Session   |

### Concurrent Session: Student Competitive Rapid Fire – 7B

Moderator: Omkar Joshi, Oklahoma State University, USA

Technical Coordinator: Asmita Nagila

| Time  | ID  | Topic   |
|-------|-----|---|
| 11:00 | 101 | Molecular Mapping of Quantitative Trait Loci for Fusarium Head Blight Resistance in the Brazilian Spring Wheat Cultivar 'Surpresa'<br>Bikash Poudel, Krishna D. Puri, Yueqiang Leng, Joseph Mullins, Anil Karmacharya, Yuan Liu, Justin Hegstad, Xuehui Li, Kishore Chittem, Shaobin Zhong<br>North Dakota State University, Fargo, North Dakota, USA           |
| 11:03 | 106 | Machine Vision System for Occlusion Free Robotic Harvesting in Apple Orchards<br><sup>1</sup> Santosh Bhusal, <sup>2</sup> Or Hirshfeld, <sup>1</sup> Uddhav Bhattarai, <sup>1</sup> Manoj Karkee, <sup>1</sup> Qin Zhang, <sup>2</sup> Avi Kahani<br><sup>1</sup> Washington State University, Prosser, Washington, USA<br><sup>2</sup> FFRobotics Inc, Israel |
| 11:06 | 132 | Combined Effects of Inundative Biocontrol and Anaerobic Soil Disinfestation Using Non-Host Cover Crops as Carbon Sources for Clubroot Management in Mustard Greens  |

| Time  | ID  | Topic   |
|-------|-----|---|
|       |     | Ram B. Khadka, Sally A. Miller<br>The Ohio State University, Ohio Agricultural Research and Development Center,<br>Wooster, Ohio, USA   |
| 11:09 | 148 | Chyangra and Chyangra Fiber: Current Status and Future Prospects<br><sup>1,2</sup> Saroj Sapkota, <sup>2</sup> Neena Amatya Gorkhali, <sup>2</sup> Deepak Adhikari, <sup>1</sup> Nirajan Bhattarai<br><sup>1</sup> Agriculture and Forestry University, Chitwan, Nepal<br><sup>2</sup> Nepal Agricultural Research Council, Khumaltar, Lalitpur, Nepal                      |
| 11:12 | 149 | Analyzing Determinants of Adaptation to Flood in Eastern Nepal Using<br>Parametric and Semiparametric Approach<br>Santosh Pathak<br>Louisiana State University, Baton Rouge, Louisiana, USA   |
| 11:15 | 164 | Study on Zoonotic Helminths in the Gastrointestinal Tract of Dogs in Kathmandu<br>Valley of Nepal<br><sup>1</sup> Bibek Bhattachan, <sup>1</sup> Birendra Kumar Bhattachan, <sup>2</sup> A. Jha<br><sup>1</sup> Agriculture and Forestry University Rampur, Chitwan, Nepal<br><sup>2</sup> Central Veterinary Hospital, Tripureshwor, Kathmandu, Nepal                      |
| 11:18 | 168 | Vegetable Grafting: Uses, Outlook and Opportunities for Nepal<br>Sudarshan Kharal, Arjun Kumar Shrestha<br>Agriculture and Forestry University, Chitwan, Nepal  |
| 11:21 | 173 | Efficacy of Botanicals for Management of Green Mold Disease ( <i>Trichoderma</i><br>spp.) in Oyster Mushroom ( <i>Pleurotus sajor-caju</i> )<br>Gaurav Adhikari, Ashutosh Poudel, Anish Bhattarai, Kriti Poudel, Dikshya<br>Sapkota, Ritesh Kumar Yadav<br>Agriculture and Forestry University, Chitwan, Nepal  |
| 11:24 | 209 | Efficacy of Sulfur and Copper as Fungicides to Control Pawpaw Leaf and Fruit<br>Spot<br><sup>1</sup> Manisha Hamal, <sup>2</sup> Sijan Pandit, <sup>1</sup> Jeremy Lowe, <sup>1</sup> Sheri Crabtree, <sup>1</sup> Kirk W. Pomper<br><sup>1</sup> Kentucky State University, Frankfort, Kentucky, USA<br><sup>2</sup> University of Lethbridge, Lethbridge, Alberta, Canada |
| 11:27 | 210 | Ethnoveterinary Practices among Small Scale Goat Farmers of Nawalpur, Nepal<br><sup>1</sup> Sachin Regmi, <sup>1</sup> Mohan Sharma, <sup>2</sup> Santosh Dhakal, <sup>1</sup> Bal Krishna Pandey<br><sup>1</sup> Agriculture and Forestry University, Rampur, Chitwan, Nepal<br><sup>2</sup> Johns Hopkins University, Maryland, USA                                       |
| 11:30 | 145 | Growth and Profitability of Maize ( <i>Zea Mays</i> L.) Under Different Organic and<br>Inorganic Nutrient Management in Chitwan, Nepal<br>Kailash Raman Bhatt<br>Agriculture and Forestry University, Rampur, Chiwan, Nepal   |
| 11:33 | 175 | Impact of Climate Change on Livestock Production in Bharatpur, Chitwan, Nepal<br>Prakash Gurung<br>Agriculture and Forestry University, Rampur, Chitwan, Nepal  |

**Concurrent Session: Student Competitive Oral – 7C**

Moderator: Aditya R. Khanal, Tennessee State University, TN

Technical Coordinator: Bishwoyog Bhattarai

| Time  | ID  | Topic   |
|-------|-----|---|
| 11:00 | 11  | Vegetation Preference and Browsing Height of Kiko Wethers and Katahdin Rams Co-Stocked in Woodlands<br><sup>1</sup> Bidur Paneru, <sup>1</sup> Uma Karki, <sup>1</sup> Nevershi Ellis, <sup>2</sup> Shailes Bhattarai<br><sup>1</sup> Tuskegee University, Tuskegee, Alabama, USA<br><sup>2</sup> University of Georgia, Athens, Georgia, USA   |
| 11:10 | 128 | Biratnagar Jute Mill: Situation, Machineries, Recommence Feasibility and Potentiality - An Industrial Case Study<br>Dikshit Poudel<br>The University of Georgia, Athens, Georgia, USA   |
| 11:20 | 192 | Enhanced Precipitation Stimulated Soil Respiratory Loss and Extracellular Hydrolases in a Switchgrass Experiment<br>Madhav Parajuli, Jianwei Li<br>Department of Agricultural and Environmental Science, Tennessee State University, Nashville, Tennessee, USA  |
| 11:30 | 204 | Colonization of Soybean Stems and Toxin Production by the Stem Canker Pathogen, <i>Diaporthe aspalathi</i><br><sup>1</sup> Bhawana Ghimire, <sup>1</sup> Saurabh Gautam, <sup>1</sup> Rajagopalbabu Srinivasan, <sup>2</sup> Ethan Menke, <sup>2</sup> Zenglu Li, <sup>1</sup> James W. Buck<br><sup>1</sup> University of Georgia, Griffin, Georgia, USA<br><sup>2</sup> University of Georgia, Athens, Georgia, USA |
| 11:40 |     | Q & A Combined Session  |

**SLOT: 8**

Timeframe: 12:00 PM – 1:00 PM EST (9:45 – 10:45 PM Nepal Time)

**Concurrent Session: Hydrology/Environment and Climate – 8A**

Moderator: Yadu Pokhrel, Michigan State University, USA

Technical Coordinator: Pramod Pokhrel

| Time  | ID | Topic  |
|-------|----|--|
| 12:00 | 18 | Yield Potential of Bio-Energy Sorghum Under Different Water Regimes<br><sup>1</sup> Sushil Thapa, <sup>1</sup> Qingwu Xue, <sup>1</sup> Kirk Jessup, <sup>2</sup> Robert Aiken, <sup>3</sup> Jourdan Bell, <sup>4</sup> William Rooney<br><sup>1</sup> Texas A&M AgriLife Research at Amarillo, Texas, USA<br><sup>2</sup> Kansas State University, Kansas, USA<br><sup>3</sup> Texas A&M AgriLife Extension Service at Amarillo, Texas, USA<br><sup>4</sup> Texas A&M University, College Station, Texas, USA |

| Time  | ID  | Topic   |
|-------|-----|---|
| 12:10 | 201 | Comparison of Evapotranspiration of Differently Managed Pasture System of Oklahoma<br><sup>1</sup> Rajen Bajgain, <sup>1</sup> Xiangming Xiao, <sup>2</sup> Jefferey Basara, <sup>3</sup> Pradeep Wagle<br><sup>1</sup> University of Oklahoma, Norman, Oklahoma, USA<br><sup>2</sup> University of Oklahoma, Norman, Oklahoma, USA<br><sup>3</sup> USDA-ARS, El Reno, Oklahoma, USA  |
| 12:20 | 104 | Flux Variance Similarity-Based Partitioning of Evapotranspiration Over a Rainfed Alfalfa Field Using High Frequency Eddy Covariance Data<br><sup>1</sup> Pradeep Wagle, <sup>2</sup> Todd H. Skaggs, <sup>3</sup> Prasanna H. Gowda, <sup>1</sup> Brian K. Northup, <sup>1</sup> James P. S. Neel<br><sup>1</sup> USDA-ARS, Grazinglands Research Laboratory, El Reno, Oklahoma, USA<br><sup>2</sup> USDA-ARS, U.S. Salinity Laboratory, Riverside, California, USA |
| 12:30 | 20  | Nepal Agriculture Adaptation to Climate Change<br>Gehendra B. Gurung<br>Climate Adaptation, Nepal   |
| 12:40 |     | Q & A Combined Session  |

### Concurrent Session: WAAP Round Table – 8B

Moderator: Gita Koirala Bhandari, WAAP/NAPA, USA  
Technical Coordinator: Asmita Nagila

### Concurrent Session: General Poster – 8C

Moderator: Ramjee Ghimire, Michigan State University, USA  
Technical Coordinator: Dev Paudel

| Time  | ID  | Topic  |
|-------|-----|--|
| 12:00 | 169 | Soil and Plant Health Management for Sustainable Vegetable Production System in Nepal<br><sup>1</sup> Rajan Ghimire, <sup>2</sup> Rajendra Regmi, <sup>3</sup> Jhalendra Rijal, <sup>4</sup> Nirajan Bhattarai<br><sup>1</sup> New Mexico State University Agricultural Science Center, Clovis, New Mexico, USA<br><sup>2</sup> Agriculture and Forestry University, Rampur, Chitwan, Nepal<br><sup>3</sup> University of California Cooperative Extension, Modesto, California, USA<br><sup>4</sup> Agriculture and Forestry University, Rampur, Chitwan, Nepal |
| 12:05 | 163 | Post-anthesis Leaf Health as Potential Determinant of Yield in Early Evaluation Trial of Wheat Genotypes<br>Deependra Dhakal<br>Agriculture and Forestry University, Rampur, Chitwan, Nepal  |
| 12:10 | 24  | Effect of Oxygation on Crops with Varying Rooting Systems: Crop Growth, Yield, and Quality<br><sup>1</sup> Jay K. Dhungel, <sup>2</sup> Surya P. Bhattarai, <sup>3</sup> Megha N. Parajulee  |

| <b>Time</b> | <b>ID</b> | <b>Topic</b>   |
|-------------|-----------|--|
|             |           | <sup>1</sup> Institute for Study and Development, Sydney, New South Wales, Australia<br><sup>2</sup> Central Queensland University, Rockhampton, Queensland, Australia<br><sup>3</sup> Texas A&M AgriLife Research and Extension Center, Lubbock, Texas, USA |
| 12:15       | 135       | Estimating Biomass of Cover Crop Grown Under Different Grazing Management Using Worldview-3 Spectral Reflectance and Forage Tower.<br>Sonisa Sharma<br>Noble Research Institute, Ardmore, Oklahoma, USA  |
| 12:20       |           | Q & A Combined Session   |

End of the Day 3 Program

**Second NAPA Biennial International Scientific Conference**  
**DAY 4: Monday, September 28**

**Closing Ceremony**

Timeframe: 8:00 PM – 11:00 PM EST

Nepal Time: 5:45 – 8:45 AM (Tuesday, September 29<sup>th</sup>)

**Moderator:** Lila B. Karki

**Technical Coordinator:** Dev Paudel

| <b>Time</b>   | <b>Program</b>                                 | <b>Responsibility</b>  |
|---------------|--|--|
| 8:00          | Program Highlights                             | Lila B. Karki<br>Conference Chair &<br>Immediate Past President, NAPA  |
| 8:10 – 9:10   | Agri-poem Recitation                           | Ambika Tiwari<br>Coordinator, Agri-poem competition  |
| 8:10 – 9:10   | Book Journey: Authors’<br>Platform/Interaction | Prem Bhandari<br>Co-Editor-In-Chief and Managing Editor, NAPA<br>Book Publication  |
| 9:10 -9:20    | Break/Recess/NAPA<br>Highlights                |  |
| 9:20 – 10:20  | Social/Cultural Event                          | Pradeep Wagle<br>Vice President, NAPA  |
| 10:20 – 10:55 | Awards Ceremony                                | - Student oral presentation<br>- Student poster presentation<br>- Rapid-fire presentations<br>- Student essay writing<br>- Agri-poem recitation<br>- Volunteers’ recognition |
| 10:55         | Closing Remarks                                | Megha N. Parajulee<br>President, NAPA  |

End of the Conference