

Western Region Cuttings

Newsletter of the Western Region, North America - International Plant Propagators' Society

Spring 2019

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IPPS

Sharing Plant Production Knowledge Globally

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Registration is Now Open for the 60th Annual Meeting of the IPPS, Western Region of North America



The 2019 IPPS Western Region Conference will be held in beautiful Northern California at the Hilton Santa Cruz/Scotts Valley from September 24 to 28, 2019.

Come and listen to a great roster of speakers who will provide insights into what is being done in other parts of the US and in different countries. Learn how new plants are discovered and find out how they get introduced into the market, from original concept through development of offshore stock plant production. We will also present the latest in chemical and biological control of diseases and insects.

As we enter a new climatic environment, we will have to rethink how gardens will look in the future. At the end of the sessions, we will have a question-and-answer period to enhance our understand of these topics and how they can be applied to your production operations.

You will not want to miss the 2019 IPPS-Western Region annual conference. We guarantee you will go away with new thoughts on processes and new networking possibilities.

Book your accommodations at the Hilton Santa Cruz/Scotts Valley by calling 831-440-1000. Be sure to tell them that you are attending the IPPS-Western Region conference in order to receive our conference rate.

Register for the conference today! **CLICK HERE to go to the webpage with registration options.**

2019 Annual Conference Program Announced

Tuesday, September 24, 2019 - Tour Stops

Monterey Valley Pride

This cannabis operation started as a cut flower operation and was one of the early pioneers to convert to cannabis in the Salinas Valley. They are a vertically integrated operation with propagation, growing, and distribution.

Sakata Seed (Salinas site)

Based in Japan, but with two breeding facilities in Northern California, we will get to see the processes involved in creating new seed and vegetative flower varieties. This is a once-in-a-lifetime look behind the scenes.

Lunch sponsored by Sakata Seed

Floricultura

This is a highly automated greenhouse operation producing orchids. We will have a firsthand view of the systems and processes that help them run this greenhouse with a very minimal staff.

University of California, Santa Cruz

We will visit the UCSC Arboretum & Botanic Garden and see the largest collection of Australian plants outside of Australia. We will also tour their research “Solar Greenhouse” that creates electricity through its covering.

Evening reception at the hotel (included with registration)

Dinner on your own



Wednesday, September 25, 2019 - Speakers

Western Region & New Zealand Region Exchange Fellowship Recipients

will highlight their exchange experiences.

Gary Cortes, Flow Vision

will help us understand how to eliminate unneeded steps and reduce waste and explain in detail how FlowVision develops processes to provide more efficiency in production operations.

Dr. Ann Chase, Chase Research; Dr. Karen Robb and Jan Hall, Target Chemicals

will give us insight from their research and experience on the most effective chemical and biological techniques for controlling plant pathogens and insects.

Douglas Justice, IPPS- Western Region

Second Vice President

will preview the 2020 IPPS International Tour in Washington State and British Columbia and the 2020 IPPS-Western Region Annual Meeting.

Richard Anderson, Utah State University

will share his adventures collecting cold-hardy native plants from Idaho, Utah, and Colorado.

Randy Baldwin, President of San Marcos Growers

will discuss Mediterranean plants and the potential they hold for our arid California landscapes.



Chuck Pavlich, Terra Nova Nurseries

will give us insight on creating new plants from concept to breeding to commercial introduction.

Dan Hinkley, international plant explorer

will talk about collecting new species from other countries and the obstacles he faces on each plant exploration.

Evening Banquet

Dr. Charlie Hall, Professor and Ellison Chair, Texas A&M University

will be the keynote speaker for our annual banquet. Dr. Hall will discuss where the economy is heading both now and in the future. We all need to stay relevant in a quickly changing business environment.



Thursday, September 26, 2019 - Tour Stops

Gerd Schneider Nursery

Mr. Schneider was born in Germany. He studied and worked in Germany, Denmark, and Switzerland, and then came to the United States to work for the Saratoga Horticultural Research Foundation in the early 1950s. He would later start Gerd Schneider Nursery. Initially specializing in grafting and propagation of shrubs and trees, Gerd loved his job and worked until the day of his passing in 2015.

Syngenta Seed (Salinas site)

Based in Switzerland, Syngenta Seed is one division among many. They purchased the Goldsmith Seed research facility from the Goldsmith family. We will get a look at seed and flower breeding.

Lunch sponsored by Syngenta

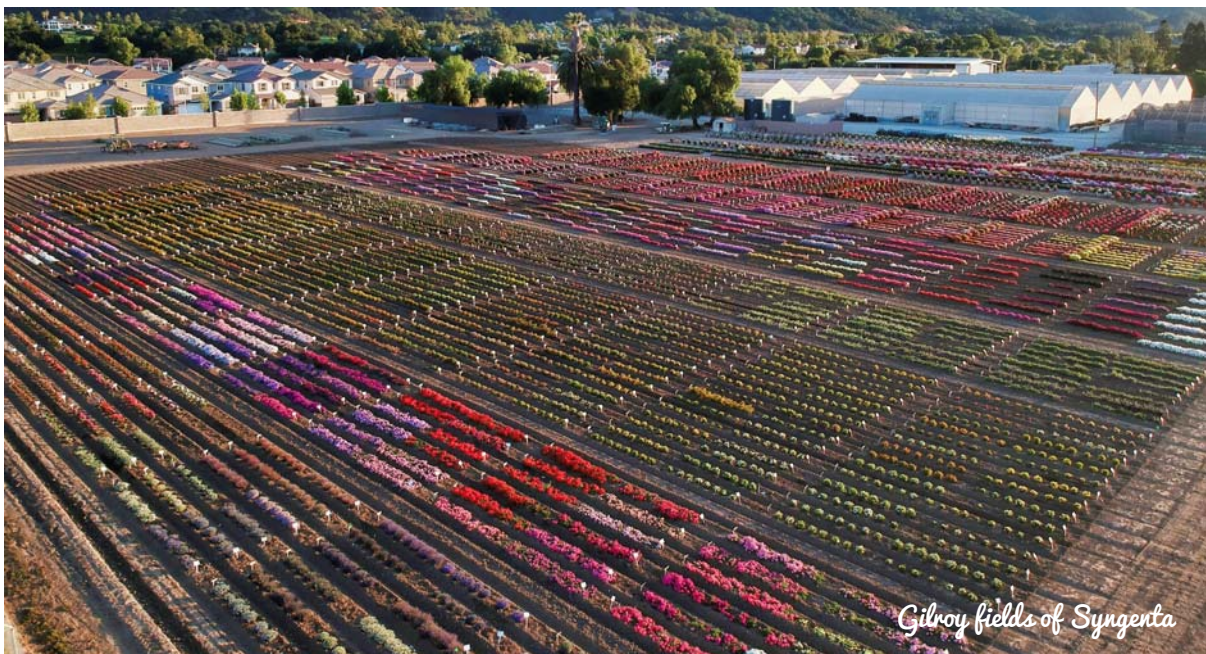
Kawahara Greenhouses

Kawahara is a third generation, Top 100 greenhouse operation. They produce bedding plants, perennials, succulents, and holiday crops at two production sites. They just completed a new 4-acre, open-roof greenhouse and have installed a new AutoStix sticking machine to help them keep up with millions of cutting stuck throughout the year.

Sakata Seed (Morgan Hill site)

Based in Japan, but with two breeding facilities in Northern California, we will get to see the processes involved in creating new seed and vegetative flower varieties. This is a once-in-a-lifetime look behind the scenes.

Dinner at Mama Mia's Italian Restaurant (included with registration)



Friday, September 27, 2019 - Tour Stops

Pajarosa Greenhouses

Started in 1979. Pajarosa Greenhouses were the first to use hydroponics to grow Roses in the United States. They have 15 acres under plastic cover with 500,000 rose bushes producing throughout the year with additional 5 acres of outdoor field flowers.

Four Winds Growers

This fourth-generation nursery operation produces citrus at multiple growing sites. If you ever wondered how citrus is grown from seed to finished product, this is a must-see operation. The Dillon family, owners of the company, have been involved with IPPS for many generations, with Lexa Dillon being our current Director for Northern California.

Berger Mixing Facility

We will get a behind-the-scenes look at how Berger mixes their media for different customers, and learn the details involved in producing a consistent product day in and day out. Their staff will also be on hand to answer any questions about the other peat-based products produced under the Berger brand. Berger will be hosting us for lunch after the tour.

Lunch sponsored by Berger



Friday, September 27, 2019 - More Tour Stops

Pacific Plug and Liner

This is another Top 100 greenhouse operation and the propagation division for Smith Gardens. We will view their new sticking line with the Growcoon propagation tray and their new ISO robotic sticking machines.

Suncrest Nurseries

One of the oldest Northern California nurseries, Suncrest Nurseries produces a broad line of California natives, Australian, South African, and Mediterranean plants. We will see what it takes to propagate this broad line of plants.

Monterey Bay Nursery

A unique nursery grower of Australian, Mediterranean, and South African flora, Monterey Bay Nursery grows on 50 beautiful acres and lists about 1000 varieties of plants at any one time.

Dinner (included with registration)

On Friday evening, we will be hosted by Manual Morales, co-owner of Monterey Bay Nursery, with a California-style barbecue at his home and have the opportunity to enjoy his 7-acre garden.



Saturday, September 28, 2019 - Speakers

Susan Frankel, Pathologist, USDA-Forest Service

will update us on her research of Phytophthora in public lands.

Dr. Jill Calabro, Science & Research Programs Director for HRI

will speak on the latest research grants and issues affecting our industry.

Raymond van den Berg, International Sales Director for the ISO Group Netherlands

will speak on the latest developments with their robotic sticking machines and automation.

Proptek/Ellepot

will provide an update on paper membrane systems in the US.

Graduate Students

We will have presentations from different universities on the latest research that will benefit our companies.

Winn Carter, California State University, Chico

will speak on his aquaponics project and update us on his research.

PechaKucha 20x20s

For fun, we will be having rapid-fire PechaKucha presentations.

Lunch (included with registration) and visit with exhibitors



Emily Teng: 2019 Western Region Exchange Ambassador to the New Zealand Region



Emily Teng is this year's recipient of the IPPS Western/New Zealand Regions Young Professional Exchange Fellowship. Emily will be traveling to New Zealand as a guest of the IPPS-New Zealand Region. Emily will have the opportunity to interact with plant producers and represent the Western Region at the New Zealand Region Annual Conference, which this year is a joint conference with the IPPS-Australia Region on the Sunshine Coast of Australia. Following the conference, Emily will fly to New Zealand and be hosted by members of the New Zealand Region for a visit of at least 2 weeks.

Emily is currently a grower for Pang's Nursery Inc. in Kaneohe, Hawaii, where she manages production and operations of this wholesale container nursery, growing a wide range of ornamentals and edibles. She has worked at Pang's Nursery since 2007. Her current duties include developing and executing insect and disease management programs; conducting experiments with plant growth regulators, pesticides, fertilizers, and growth practices to improve crop quality; propagating plant materials to maintain constant sales inventory; and scheduling and planning crops to be planted daily. Emily also supervises a staff of 2 to 4 employees by assigning tasks daily, training, and ensuring quality work; and overseeing sales by processing customer orders and maintaining customer relations.

Emily is also a Ph.D. candidate at the University of Hawaii in the Department of Tropical Plant and Soil Sciences and expects to graduate in December 2019. Her dissertation topic is "Anthocyanins in *Euphorbia pulcherrima* (Poinsettia): Pigment Profile and Effects of Light Intensity and Temperature on Anthocyanin Content and Gene Expression."

In speaking about her background, Emily states, "Growing up in the suburbs of Pittsburgh, Pennsylvania, I spent the summers playing in the yard with my two best friends. We ran through the unkempt, weedy areas around our houses picking wildflowers and scattering dandelion seeds. We pretended the shady dark caves created by majestic old trees were another world that we named "Paradise". It was an idyllic childhood, and a love of plants and nature was a fundamental part of it.

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But then I grew up and the days of playing outside all summer ended. Doing well in school became the top priority.”

“When I was 13, my family moved to Columbia, South Carolina. I finished high school and attended college in South Carolina, where I excelled in science, and majored in chemistry as an undergraduate. After graduation, I took a job at one of the world's largest global consulting and technology firms while deciding what career I wanted to pursue. During my free time I took on houseplants and gardening as a hobby and started growing all kinds of plants, both in my home apartment and my corporate apartments on the road. That is when I came to the realization that I could turn this hobby into a career. In 2002, I quit my high-tech job, took a job installing landscape flower beds at a local landscaping company, and enrolled in plant science courses. In the summer of 2003, I moved to Hawaii, started on my Master's degree in Tropical Plant and Soil Sciences, and haven't looked back.”

“Ten years later, I have long since completed my master's degree and been exposed to nearly every facet of owning and operating a successful nursery business in Hawaii during my six years at Pang's Nursery. After much consideration, I decided it was the optimal time for me to return to school and pursue a doctoral degree. Having gained real-world experience, I had a much clearer idea about what I wanted to accomplish in the future and knew what I enjoyed focusing on within the broad field of horticulture.”

“I continue to work at Pang's Nursery, even as a full-time doctoral student, because I enjoy growing plants and staying in touch with the industry. Outside of school and work, I stay involved by attending seminars and trade shows, and read the latest publications to keep up with the newest products and developments. I have also volunteered at various agriculture events such as the Hawaii State Farm Fair and Agriculture Awareness Day, where school children are exposed to careers in agriculture and environmental studies. In 2015, I was selected as a HortScholar by AmericanHort, which gave me the opportunity to attend the major horticulture trade show Cultivate in Columbus, Ohio. This was an unforgettably wonderful and exciting learning experience. In 2016, I fulfilled a dream I've had for many years and attended the California Spring Trials. I've attended and presented at the American Society for Horticultural Sciences Annual Conference for the past two years, and also attended the first Production Technology Conference organized by AmericanHort in 2017. All these experiences have been invaluable in shaping my career and at the same time have been enjoyable and rewarding.”

“I am excited about my future in the floriculture industry and am thankful that I have been able to pursue the highest education possible in a field I didn't discover a love for until years after finishing college. I am also grateful that I have been able to continue working and studying ornamentals, the specialty that got me interested in horticulture in the first place. Hopefully my research will make a useful contribution to the knowledge base and help plant breeders and growers produce even more beautiful plants in the most efficient manner possible. Looking forward, I want to return to the private sector after graduation and work at one of the larger floriculture breeding companies doing research that directly impacts growers. I would later like to return to academia as a faculty member, having a balance of real-world experience and a strong research oriented academic background. With my past experiences and on-going research that will culminate in a doctoral degree, I aspire to have a promising future as a horticultural researcher helping growers.”

Emily will discuss her New Zealand exchange experience at the annual meeting in Santa Cruz.

Andrew Abate Reports on His 2018 New Zealand Region Exchange Experience



In spring 2018, I was honored to be chosen to participate in the Fellowship Exchange Program to the New Zealand Region of the IPPS. The IPPS facilitates this program to enable the sharing of plant knowledge and propagation techniques between these two regions, and I had the incredible opportunity to be the ambassador for the Western Region. I had always wanted to explore New Zealand and, like so many others, I had been seduced by the pictures of their green rolling hills, breathtaking mountain ranges, and pristine beaches. I would now be looking at this wonderful foreign land through the lens of a horticulturist, eager to learn any secrets and master any and all new techniques I could add to my bag of tricks. Along the way I would do my best to pass on my own knowledge and skills – those of a young professional in the industry. The two weeks I spent there were a whirlwind of nurseries and a great look into how the horticulture industry operates in another part of the world. The many stunning views and new, strange, and interesting plant life I was exposed to was incredible. The trip helped to broaden my perspective on our natural world and deepen my understanding of the nursery industry at the same time. I hope to pass on some of that knowledge here, and will highlight some of what I found to be the most interesting aspects of my journey in New Zealand.

THE NEW ZEALAND NURSERY SCENE

During my brief stay on New Zealand's North Island, I saw at least 13 different nurseries and two arboretums, trekked through the bush, and went seed collecting on cliffs on the shore. The first week and a half before the conference I spent touring nurseries, staying with some amazing host families and getting a great look at the local plant scene. Many of the nurseries that I visited had a focus on perennials grown primarily in containers, such as Kilmarnok Nursery in Palmerston North, which we visited as one of the stops during the IPPS conference tour. Kilmarnok was a clean-cut operation with

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gravel and black pots, and colorful rows of perfectly arranged camellias and azaleas alongside native grasses and South African flowers. There were other nurseries, such as Appletons and Ardmore, that had the familiar rows of bare-root ornamental trees. Among the nurseries, there was a pervasive theme in New Zealand growers of preserving and propagating many native plant species and conserving their natural ecosystem. This attitude also reached into other horticulture related sectors, and in turn there was a high demand for native species from the landscaping industry.

A perfect example of a conservation-dedicated nursery is Joy Plants in Pukekohe East, which was the first stop on my tour. Joy Plants is owned and operated by the Hatch Family, who were also the first people kind enough to host me at their home and nursery. Terry Hatch won the New Zealand Honors Award for his conservation work, and his son Lindsey is carrying on the tradition of preserving rare and endangered plant species. They sell over 600 species, the majority being natives, and 90% of the natives being straight species (not cultivars) in order to conserve the plants' genetics and the land's natural form. They even had a few very rare native plants that they propagated, such as the shrubby island tree *Elingamita johnsonii* and the offshore-island tree *Pennantia baylisiana*, one of the most endangered tree species in the world.

Lindsey told me that Joy Plants sells rare and endangered species for incredibly low prices on purpose to help speed up the spread of these plants that need to be protected. On top of that, he had recently purchased 44 more acres that he was planning to turn into seed blocks for endangered species. This prioritizing of conservation over money-making was a common theme among the New Zealand growers. After two weeks traveling through the incredible countryside and taking in all the amazing landscapes, it was easy to see why.

NATIVE SEED COLLECTION

Probably my favorite part of the journey was when my hosts took me native seed collecting out in the bush of the New Zealand wild. The first time I went hunting for seeds was with Lindsey Hatch, manager and owner of Joy Plants. We were on the hunt for a native species of *Pseudopanax*, so we went combing the coastline of the western side of the North Island, searching for the palmately compound, glossy green leaves, and racemes of red berries. The *Pseudopanax* we were searching for is a cousin of the schefflera plant that is so common in the house plant trade. It was awesome to see its native counterpart out in the wild.

Lindsey and his dad had been coming to these same spots for years, supplying the nursery with another crop of natives to sell and spread across the island. In addition, these plants help to stop erosion of the coastline and safeguard the pristine beaches of New Zealand. Going out and collecting these seeds, then seeing the same plants in later stages of production back at the Hatch's nursery was really cool, and gave me a great appreciation for the work that they were doing.

The second place where I went seed collecting was in the Pureora National Forest with Philip Smith, owner and operator of Totara Glen Nursery and another of my gracious hosts. Philip had previously

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spent years helping to manage the NZ Native Plant Nursery, one of the biggest native species propagators in the country. Stomping through the dense bush, Phillip took me to a few of the seven locations he had hidden in the massive forest. These locations had a big net that had been draped between trees, usually one of the endemic totara trees or a towering kauri. In the understory of these massive trees were many varieties of tree ferns, the most striking of which was the Silver fern, *Cyathea dealbata*. Phillip's seed net locations were a close-kept secret. After seeing the yield the impressive specimens that we harvested from, it was easy to see why.

The different tree species in the Pureora Forest were spectacular, and the environment reminded me much of my home state of Oregon. One cannot help but wonder with how similar the climates are and whether some of these endemic New Zealand plants might not thrive in the Oregon soils. I wondered if the majestic kauri or fern trees could survive in the rainforest of the Pacific Northwest, of if I could one day see one of the feijoa trees with their sweet, green fruit in an Oregon orchard. But one can dream!

ACKNOWLEDGEMENTS

I would like to thank the IPPS Western Region and New Zealand Region for choosing me for this amazing opportunity, as well as my employer, J. Frank Schmidt Nursery, for enabling me to participate. I would also like to thank all of my wonderful hosts: the Hatch family, Philip and Janine Smith, Richard Beaumont, Dave and Shirley Ogilvy, and all the great people I met at the IPPS conference in Palmerston North. For any budding horticulturists or travelers out there, I would highly advise seeking out the exchange program through IPPS. It is the perfect way to combine traveling the world with the study of plants, and is guaranteed to be an amazing and educational experience.

Travel, Seek, and Share: Upcoming IPPS Events

LOUISIANA - October 12 to 16, 2019

The Southern Region of North America is heading down south with their annual meeting in Baton Rouge. Y'all come! Visit: <http://ena.ipps.org/>.

WISCONSIN - October 16 to 19, 2019

The Eastern Region of North America invites you to the U.S. Heartland to learn the latest on propagation, production, and new plant breeding from industry leaders. Visit: <http://ena.ipps.org/>.

SINGAPORE - November 18 to 22, 2019

The New Zealand Region is organizing a special IPPS symposium in Singapore and IPPS members around the world are invited to attend. Current plans are to have brief presentations on two afternoons, tours on most morning, and a day trip to Malaysia to visit nurseries. Attendees are also invited to make a short presentation at the symposium on tropical plant propagation and botanical collections. More information will be forthcoming on the IPPS-New Zealand website at <http://nz.ipps.org/>.

Contact for the Singapore event: Philip Smith, smithstaupo@hotmail.com

Bruce Briggs Memorial Scholarship Application Deadline is June 15, 2019



In the photo are the four Bruce Briggs Memorial Scholarship recipients for 2018 at the IPPS-Western Region Annual Meeting in Kailua-Kona, Hawaii. Shown in the photo (left to right): Carter Winn (California State University, Chico), Aleta Corpuz (University of Hawaii at Manoa), Julienne Zhu (IPPS member from China), Gage Willey (California Polytechnic State University, San Luis Obispo), and Kylie Lawson (Utah State University).

The International Plant Propagators' Society (IPPS) Western Region awards the Bruce Briggs Memorial Scholarship to deserving students in horticulture educational programs. The late Bruce Briggs was a proud and active member of the IPPS-Western Region. He enjoyed students and promoted IPPS worldwide.

This scholarship is given each year to college and/or university students who are studying plant propagation and demonstrate a strong interest in pursuing propagation as a career. The scholarship pays for students to attend the Annual Meeting of the IPPS-Western Region. Both the registration fee (includes most meals) and accommodations (shared) are covered by the scholarship. Travel costs are the responsibility of the scholarship recipient.

The annual meeting gives the students the opportunity to interact and hear presentations on various areas of plant propagation. A tour of nursery propagation facilities and affiliated businesses is an integral part of the scheduled activities. The number of scholarships awarded is determined by the cost of the meeting and hotel rooms for that year. An added benefit of the award is a one-year student membership in IPPS-Western Region. Previous scholarship recipients are not eligible for a second scholarship.

Applications for the 2019 Bruce Briggs Memorial Scholarship (including additional information) are available at: <http://wna.ipps.org/members/scholarships/bruce-briggs-memorial-scholarship>.

The application deadline is June 15, 2019.

Call for Papers: Posters, Nuggets, New Plants, and NEW FOR 2019: Student Research Papers

In keeping with the IPPS motto of “To Seek and To Share”, the Western North America Region of the International Plant Propagators' Society is seeking papers and presentations to be shared at the 2019 Annual Meeting in Santa Cruz, California on September 24-28, 2019. This event will bring together educators, researchers, professionals, and students in the field of plant propagation, plant production, and related disciplines. There are several categories of papers that can be submitted, so there should be a slot for everyone. The categories are:

- Original student research papers
- General papers to be presented as posters
- Nuggets of Knowledge
- New plant material

ORIGINAL STUDENT RESEARCH PAPERS

This year for the first time the IPPS-Western Region will be conducting a student research paper competition at its annual meeting. The contest is open to graduate and undergraduate students enrolled in any higher education institution. The contest will review papers describing original research dealing with horticultural crop production. The authors of the top three papers will be invited to present their work in an oral presentation. Those presentations will be judged and first, second, and third place will be awarded \$500, \$250, and \$100 respectively. All other papers will be evaluated with selected papers invited for presentation as posters at the annual meeting.

In addition, students may also apply to the Bruce Briggs scholarship program. Winners of the Briggs' Scholarship will have their registration fee waived and be provided shared lodging with other scholarship winners. All students interested in attending the conference are eligible to apply for a Brigg's Scholarship, regardless of whether or not they are presenting a paper.

Rules for the competition are as follows:

1. A digital pdf copy of the completed paper must be submitted as a Word document not to exceed eight double-spaced pages including tables and figures. Papers must be submitted by August 1, 2019 for judging.
2. A panel of judges selected from the IPPS-WNR Board of Directors will judge the papers.
3. The top three papers will be invited to the oral competition at the meeting where they will compete for first, second, or third place with 15-minute presentations (12 minutes for presentation and 3 minutes for question and answer). Winners will be awarded \$500, \$250, or \$100, respectively.
4. All remaining submitted papers will be eligible for presentation at the meeting in a poster format.
5. A final copy of all student papers will be presented to the Editor of the IPPS-WRNA and published in International Plant Propagators Society Combined Proceedings.
6. Research titles and papers must be submitted to Larry Rupp.

GENERAL PAPERS TO BE PRESENTED AS POSTERS

Any research, development, or horticultural practice about plant propagation or plant production is appropriate for submission as long as it is non-commercial in nature. (continued on the next page)

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Papers do not have to be academic or scientific in nature! If you have an innovative technique or method for growing plants, feel free to share it through a poster. Membership in IPPS is not required.

Papers will be subject to review with accepted papers being eligible for submission as posters. Posters should be vertically formatted and be up to 35-inches wide by 47-inches tall.

Specific requirements for posters include:

- The poster title, author, and affiliation should be on the top of the poster.
- Lettering for the title should be at least 1-inch tall; other text may be smaller, but should be legible from two feet away.
- Authors are encouraged to include a personal photograph in the poster to assist in identification.
- Images, figures, and tables should predominate over text.

A one-page summary or abstract of the poster's content should accompany the application. Acceptance of the poster for presentation will be based on a review of the summary. If accepted, the summary will be archived and published in the 2019 Combined Proceedings. Published articles are fully copyright protected. A digital copy of the poster can also be archived. Please include the author's name(s), affiliation, address, phone number and email address on the summary.

Accepted posters can be shipped to the address below or hand-delivered to the Annual Meeting at the Hilton Santa Cruz/Scotts Valley Hotel by 5:00 pm Tuesday, September 24, 2019. They will be removed Saturday, September 28 at 12:00 noon and can be picked up that time. Posters will be returned by mail if a poster tube and return postage is included. Please submit the application and summary by August 1, 2019. You will be contacted if your poster is selected for display.

NUGGETS OF KNOWLEDGE

Nuggets of knowledge are the ultimate example of sharing. To make it easier to share, this year we are trying a PechaKucha format. Simply submit 1-12 slides on your topic and you will be given 20 seconds per slide. This rapid-fire meeting format is a lively way to share as much information as possible in a very brief amount of time.

NEW PLANT MATERIAL

This year, new plant material can be presented as either a poster or a PechaKucha slide show. Both patented and non-patented plants may be presented, and posters should discuss the unique characteristics and features of each new plant. Information on the taxonomy and source of propagules (seed, cuttings, plugs, liners, etc.) should also be presented. Authors should feel free to bring specimens to present with the poster. Please limit your plant introductions to those from 2017 or newer.

Thank you for considering a submission to this conference. It will be a great opportunity for students and is highlighted by an exciting program of tours and presentations by some of the greatest nurserymen and nurseries in Southern California. Please direct any questions to larry.rupp@usu.edu.

Download complete rules and an application form here:

http://admin.ipps.org/uploads/IPPS-WR_Call_for_Papers_2019.pdf

IPPS Holds First Conference in India; Western Region Adds 19 New Student Members

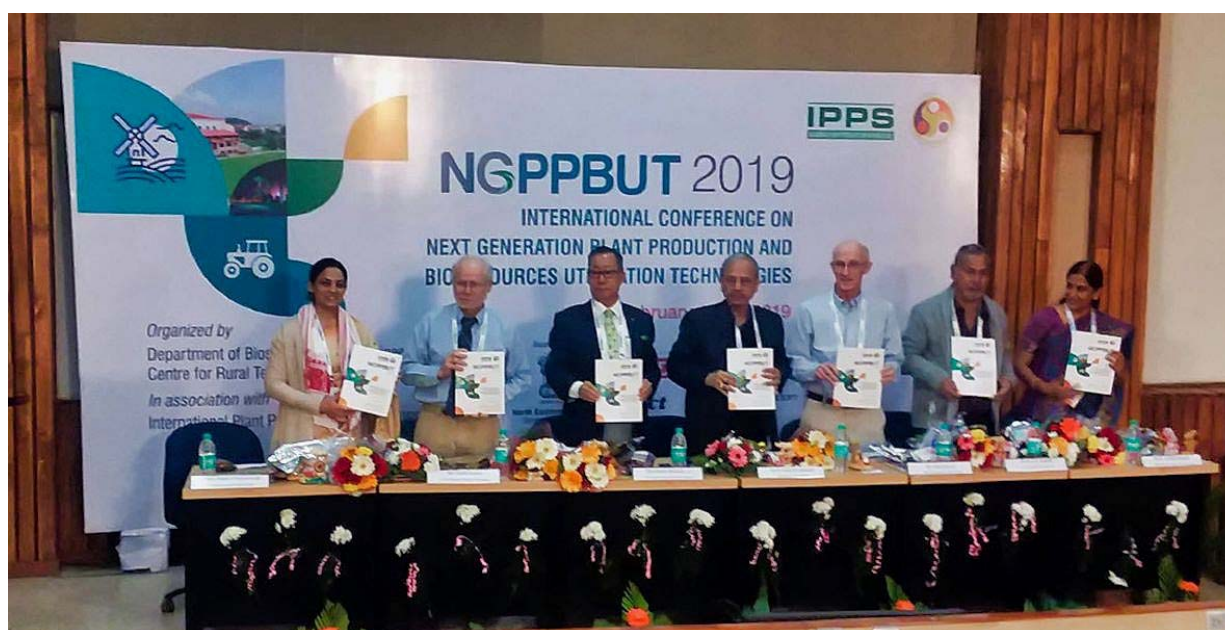


The International Conference on Next Generation Plant Production and Bioresources Utilization Technologies (NGPPBUT) 2019 was held this past February at the Indian Institute of Technology Guwahati (IITG) in Assam, India. The conference brought together academicians, industrialists, horticulturists, plant growers, researchers, scientists, and students to engage in critical issues and challenges in the latest developments in cutting-edge research and technology in the area of plant sciences and agrobiotechnology.

NGPPBUT 2019 also marked the first meeting of the International Plant Propagators' Society (IPPS) in India. The event covered a wide range of issues from advances in nursery production technology to innovative and best practices in micropropagation of woody plants, micropropagation of herbaceous plants, and other relevant areas of plant propagation and production.

Sixteen IPPS-Western Region members attended NGPPBUT 2019, including ten Western Region members from India and six from the United States. The IPPS presentations were well received and Western Region added an additional 10 student members during the conference. Western Region member Dr. Rakhi Chaturvedi did a wonderful job organizing the conference.

Some highlights from the conference are shown in the photos below and on the next page.





Thanks to the First Sponsors of the 2019 IPPS-Western Region Annual Meeting

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Western Region Job Board is Open...and It's Free!

A Job Opportunities board has been added to the Western Region website. You can access the site using the drop-down menu under the Media Centre tab. The job board is offered as a free service.

IPPS members and representatives of their employers may submit job opportunities for posting on the IPPS-Western Region Job Opportunities page.

Submit either: (1) URL link to a job posting on the company's website (links to third party job posting sites will not be accepted) or (2) A PDF or MS Word document containing all pertinent information about the job. The company's web page or the submitted file must contain the job title, job location (city, state/province, country), description, contact information, and all other pertinent information about the job.

Submit via email to the IPPS-Western Region Editor, Dr. Gene Blythe (blythe@pss.msstate.edu).

Job opportunities will be posted for 60 days. Prior to the end of the 60 days, request for a 60-day extension may be made by email to the Editor.

For more details, see <http://wna.ipps.org/media-centre/job-opportunities>.

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