Horticultural highlights
How to make substrates' R&D greater? • Record giant pumpkin fruit weights: 1857 to 2017
• Anational value: Turkish figs • An overview on fruit breeding in Turkey

Symposia and workshops
Cactus Pear and Cochineal • Pomegranate and Minor Mediterranean Fruits
• Walnut, Cashew and Pecan • Peach • Papaya • Seed, Transplant and Stand Establishment of Horticultural Crops • Production and Establishment of Micropropagated Plants • Growing Media, Soilless Cultivation, and Compost Utilization in Horticulture • Postharvest Unlimited

Volume 58
Number 2
2018

XXX INTERNATIONAL HORTICULTURAL CONGRESS
12-16 AUGUST 2018
ISTANBUL, TURKEY

It's Congress time
www.ihc2018.org
A publication of the International Society for Horticultural Science, a society of individuals, organizations, and government agencies devoted to horticultural research, education, industry, and human well-being.

Contents

- News & Views from the Board
- Time flies... Y. Desjardins
- Spotlight on Honoured ISHS Members
- Errol W. Hewett
- Horticultural Science News
- How to make substrates R&D greater? The results of the 2017 ISHS Working Group Growing Media survey, J.-C. Michel
- History
- Record giant pumpkin fruit weights: 1857 to 2017, J. Janick, D. Langevin, Ying Li and M. Willemin
- The World of Horticulture
  - A national value: Turkish ligs, S. Arpac, R. Konak and E. Çiçek
  - An overview on fruit breeding in Turkey, E. Kaçal, F.A. Yildirim, G. Oztürk and M. Aydınlı
- New books, websites
- Courses and meetings
- Symposia and Workshops
- IX International Congress on Cactus Pear and cochineal
- International Symposium on Pomegranate and Minor Mediterranean Fruits
- VIII International Symposium on Walnut, Cashew and Pecan
- IX International Peach Symposium
- V International Symposium on Papaya
- VII International Symposium on Seed, Transplant and Stand Establishment of Horticultural Crops (SEST2016)
- VII International Symposium on Production and Establishment of Micropropagated Plants
- International Symposium on Growing Media, Soilless Cultivation, and Compost Utilization in Horticulture
- VI International Conference Postharvest Unlimited
- News from the ISHS Secretariat

3 Time flies..., Y. Desjardins
5 Spotlight on Honoured ISHS Members
9 Horticultural Science News
13 How to make substrates R&D greater? The results of the 2017 ISHS Working Group Growing Media survey, J.-C. Michel
15 History
25 Record giant pumpkin fruit weights: 1857 to 2017, J. Janick, D. Langevin, Ying Li and M. Willemin
26 The World of Horticulture
36 A national value: Turkish ligs, S. Arpac, R. Konak and E. Çiçek
38 An overview on fruit breeding in Turkey, E. Kaçal, F.A. Yildirim, G. Oztürk and M. Aydınlı
28 New books, websites
28 Courses and meetings
29 Symposia and Workshops
29 IX International Congress on Cactus Pear and cochineal
34 IV International Symposium on Pomegranate and Minor Mediterranean Fruits
33 VIII International Symposium on Walnut, Cashew and Pecan
34 IX International Peach Symposium
35 V International Symposium on Papaya
39 VII International Symposium on Seed, Transplant and Stand Establishment of Horticultural Crops (SEST2016)
40 VII International Symposium on Production and Establishment of Micropropagated Plants
42 International Symposium on Growing Media, Soilless Cultivation, and Compost Utilization in Horticulture
44 VI International Conference Postharvest Unlimited
46 News from the ISHS Secretariat
46 New ISHS members
47 In memoriam
47 Calendar of ISHS events
52 Available issues of Acta Horticulturae
The International Symposium on Growing Media, Soilless Cultivation, and Compost Utilization in Horticulture was convened in Portland, Oregon, USA from 20-25 August, 2017. Members of the ISHS Commissions Organic Horticulture, Plant Substrates and Soilless Culture, and Protected Cultivation were well represented. At this symposium, there were 150 attendees present from 21 countries representing the Growing Media, Substrate Analysis, Hydroponics and Aquaponics, and Composting for Horticultural Applications Working Groups within ISHS.

With the ever-increasing production of ornamental, edible, medicinal, and recreational crops in controlled environments, the need for specialized substrates will only increase in the years and decades ahead. Scientists and industry professionals from around the world joined in a unified agreement and belief that our industry must continue to evolve to meet the ever-growing needs of our ever-changing industry. Substrates are now being designed, engineered, constructed, and utilized like never before in the history of container substrate production. It is the goal, challenge, and livelihood of members of the participating groups and industries to continue meeting the needs of the horticultural industry.

In addition to tours of botanical gardens, greenhouses, nurseries, and substrate producers in the Portland area, this symposium had over 60 oral and 40 posters presentations covering a broad range of topics related to substrate science. The North American and European growing media industries were well represented with numerous peat producers present, as well as growing media manufacturers, hydroponic product/system distributors, fertilizer companies, compost...
companies, plant/soil analytical companies, private consultants, coconut coir distributors, wood fiber manufacturers, and academic researchers. The support from the North American and European industries, both in sponsorships and participation, was outstanding and with their support, the symposium was considered by all to be a tremendous success.

One of the great successes of this symposium was the active participation of graduate students from around the world. Oral and poster presentations from graduate students filled the first day of the scientific session and later in the week during the symposium business meeting the first, second, and third place winners in each category were presented with plaques. ISHS young minds awards were presented to Paul Bartley from NC State University, USA, for the best oral presentation entitled "3-Dimensional characterization of substrates with X-ray microtomography" and to Joshua Henry from NC State University for the best poster entitled "Redefining phosphorus nutrition and deficiency symptomology for ornamentals grown in soilless substrates". The delegates present at the symposium were in great support of continued efforts to encourage graduate students and other young professionals to attend future symposia with ideas of scholarships or travel grants being a potential way of supporting this initiative.

In addition to a near total eclipse on 21 August in Portland, there were many topics of primary and frequent discussions, including: 1) the world-wide revolution of wood fiber usage in growing media, 2) the emerging Cannabis industry and its growing media needs and opportunities, 3) the debate of growing media regulations and standards, 4) the role of biological additives to growing media, 5) the future of composting and compost systems, 6) raw material sourcing and processing, 7) environmental and governmental regulations, 8) microbiology of organic substrates, 9) substrate induced nutrient relations and deficiencies, and 10) substrate hydrology and water capture for maximum crop efficiency. Also discussed during many sessions (formally and informally) was carbon footprint/sequestration of substrates and substrate materials, and end-of-life reuse and recycling of substrate materials.

Brian E. Jackson

Contact
Dr. Brian E. Jackson, Associate Professor and Co-Director of the Horticultural Substrates Laboratory, NC State University, Department of Horticultural Science, 130 Kilgore Hall, Raleigh, North Carolina, 27695-7609, USA, phone: (+1)9195333187, e-mail: Brian_Jackson@ncsu.edu

Visit to Phillips Soil Products, a state-of-the-art substrate manufacturer and distributor in the Pacific Northwest, USA.