WOOD ANATOMY NEWS

IAWA China Group expanding rapidly

The IAWA China Group is expanding rapidly. In the first half of this year about 50 new members joined, bringing the IAWA membership in China up to 63. We welcome them cordially to our community and look forward to seeing them at future IAWA Meetings in China and beyond.

Successful meeting of the IAWA Bark Committee

From 17–24 May the IAWA Bark Committee met in Brotas, São Paulo State, Brazil, to work towards an IAWA List of Macro- and Microscopic Features for Bark Research. Much progress was made towards an agreed list of characters to be included, and on definitions of the character states to be recognized and illustrated. Meanwhile the IAWA Committee members continue their hard work on additional explanatory texts and selection of suitable micro- and macrophotographs.

Hopefully the IAWA Bark List will be published as a special IAWA Journal issue in 2015. The heavy task in Brotas was lightened by relaxation in the ecotouristic hotel fazenda *Areia que Canta* (the Singing Sand, named after the acoustic properties of fine sand in a natural spring nearby), where the workshop was held among beautiful riparian forest.

Members of the IAWA Bark Committee in the gardens of *Areia que Canta*: from left to right: Leo Junikka, Alan Crivellaro, Frederic Lens, Marcelo Pace, Solange C. Mazzoni-Viveiros, Carmen Marcati, Alexei Oskolski, Veronica Angyalossy, Pieter Baas, Teresa Terrazas, Nadezhda Nikolaeva and Ekaterina Kotina (by courtesy of Ekaterina Kotina).

CITES Workshop on *Dalbergia* and *Diospyros* from Madagascar

On 13 June 2014 a workshop was held at the von Thünen Institut für Holztechnologie und Holzbiologie in Hamburg. Initiated by the Scientific Support section of the CITES Secretariat in Geneva, and hosted by Gerald Koch, Hamburg, the international group of attendants addressed current methods for wood and tree identification (wood anatomy, vegetative and reproductive morphology, various methods of DNA fingerprinting and stable isotope analysis), and discussed standard protocols for collecting and exchanging *Dalbergia* and *Diospyros* wood, herbarium, and DNA samples in the field. Multidisciplinary collaboration is urgently needed to implement the recent CITES-appendix II listing of all species from Madagascar of these two luxury timber genera, which continue to be overexploited. For the wood anatomical community it is of special interest that Harisoa Ravaomanalina and Fritz Schweingruber are in an advanced stage of preparing an atlas of bark and wood structure of the rosewoods and ebonies from Madagascar.

IAWA Symposium at the European Palaeobotanical Congress in Padua, Italy

An IAWA Symposium convened by Marc Philippe and Jakub Sakala on behalf of IAWA at the 9th European Palaeobotany and Palynology Conference (EPPC) will take place on August 28, in the Department of Geosciences of the University of Padua. Jakub Sakala and local IAWA member Alan Crivellaro will also host an IAWA Social Hour on that date. For the latest information please visit the conference website (<http://www.geoscienze.unipd.it/eppc2014/index.html>).

IAWA Symposia in Salvador de Bahia, Brazil

IAWA Members are reminded of the IAWA Symposia at the Latin American Congress in Salvador, Bahia, Brazil from 19 to 24 October 2014 on: 1) dendrochronology, 2) development and variation in the vascular system, and 3) systematics, evolution and ecology (for details see: www.65cnbot.com.br). An IAWA Social Hour is also envisaged.

IAWA Journal Impact Factor 2013

On 29 July the new impact factors of all ISI listed journals were released. The IAWA Journal registered a modest but encouraging increase from 0.795 for 2012 to 0.957 for 2013 (+ 20%). We are working hard to get well above the 1.0 level again, but depend on our authors and readers to generously cite IAWA Journal papers in their current and future publications, and submit innovative manuscripts or excellent review papers to our Journal.

I.W. Bailey Award 2014 – Reminder call for nominations

Irving Widmore Bailey (1884–1967) was one of the greatest wood anatomists of all time. His publications on xylem evolution, cambium and wood formation, cell wall ultrastructure, fossil woods, tree pathology, vestured pits, wood identification, and wood properties remain seminal to this day. His broad insights into the biological and practical significance of pattern and process in plant structure are still inspirational. IAWA honours his memory by naming the award for early career researchers, who publish their work in the IAWA Journal, after him.

From 2014 onwards, the I.W. Bailey Award is presented annually for the best original or review paper submitted to the IAWA Journal by a PhD candidate or postdoc who has completed her/his PhD no longer than five years since the submission of her/his manuscript. All subject matters published in the IAWA Journal are eligible: wood, bark, palm, bamboo, and rattan anatomy and ultrastructure, preferably linked to other fields such as, for instance, plant physiology, ecology, tree biology, pathology and decay, plant systematics and phylogeny, palaeobotany, climatology, archaeobotany, wood properties, biomechanics and wood culture. The Award consists of a certificate and 1000 USD, sponsored by Brill Publishers.

Candidates may nominate their own submissions directly to the editors of IAWA Journal (c/o pieter.baas@naturalis.nl), together with a one-page cv, and one supporting statement from a senior IAWA Member before September 1st of the current year. Submissions will undergo the normal peer review process via the Brill/IAWA editorial manager system. The Award Committee will be formed by the Editors and Associate Editors of the IAWA Journal (please visit <http://www.editorialmanager.com/iawa/> for instructions to authors).

Image Analysis for Forest Science

Regent Instruments Inc.

since 1991

WinDENDRO™ Accurate Tree-Ring Analyser

Features

- ✓ Automatic ring detection with adjustable sensitivity
- ✓ Unlimited number of radii or paths can be created
- ✓ Earlywood/Latewood boundary measured using density or light intensity
- ✓ Multi-segment paths allow analysis of damaged disks, curved cores or rings perpendicularly to their boundary
- ✓ Ring-widths and Cross-dating graphics
- ✓ Correlation functions
- ✓ Tucson decadal formatted text file accepted as cross-dating reference
- ✓ Smoothing spline curve can be displayed in order to choose the best parameters for detrending
- ✓ Interactive quantification of compression and reaction wood
- ✓ Wood density analysis using x-ray films, digital x-ray imaging, or the "Blue Intensity" reflected-light method
 - Multiple density measurements can be saved on a ring or pixel basis
 - Available per ring: ring width, earlywood and latewood width, ring maximum, minimum and mean density, earlywood and latewood mean density, and ring boundary orientation
 - Available per pixel along a ring path: pixel density or light intensity, and slit orientation
- ✓ XLSTEM™ module available for stem analysis: mean radius, diameter and area per disk, tree height and volume as a function of age or year

WinCELL™ Specifically Designed for Wood Cell Analysis

Features

- ✓ Anatomical analysis and quantification of wood cell structure parameters over annual rings:
 - lumen area, perimeter, form coefficient
 - lumen length and width
 - wall thickness
 - lumen and wall area in function of their color
- ✓ Spatial distribution to analyse variations in function of cell position on annual rings
- ✓ Flexible tools to exclude any image region from analysis
- ✓ Debris filtering
- ✓ Analyses cells per annual ring for one or more rings per image
- ✓ Data computed on a yearly basis in a format similar and compatible with WinDENDRO™
- ✓ Integrated knowledge of wood cell anatomy and annual tree-ring formation produces data suited for wood scientists
- ✓ Analyses images of thin wood slices mounted on a microscope with a camera or very high resolution images of regular wood cores or disks, or of woody roots (xylem) acquired with a scanner or a camera

www.regentinstruments.com

sales@regentinstruments.com