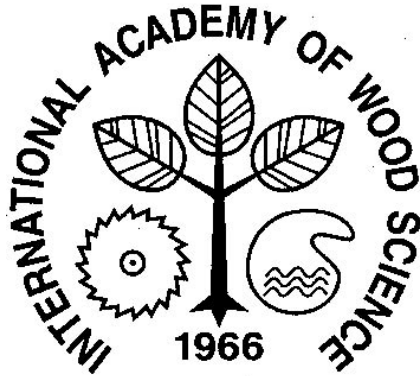


**INTERNATIONAL  
ACADEMY  
OF  
WOOD SCIENCE**

**BULLETIN  
2005-I**



**May 2005**

**Executive Committee**

**President: John Barnett, Reading**  
**Vice-President: Xavier Deglise, Nancy**  
**Secretary: Uwe Schmitt, Hamburg**  
**Treasurer: Frank Beall, Richmond**  
**Past President: Kent Kirk, Madison**

## **ACADEMY BOARD**

**J.R. Barnett (Academy President), Chairman (2005)**

**X. Deglise (Academy Vice President) (2005)**

**U. Schmitt (Secretary) (2007)**

**F.C. Beall (Treasurer) (2005)**

**T.K. Kirk (Past President), Advisor (2005)**

**R.W. Allison (2010)**

**R. Birkeland (2006)**

**H. M. Chang (2008)**

**X. Chen (2006)**

**O. Faix (2010)**

**H. Greaves (2006)**

**T. Higuchi (2008)**

**G. Meshitsuka (2010)**

**A. Petty (2008)**

**K. Ruel (2010)**

**H. F. Vermaas (2006)**

**A. Wallis (2008)**

**End of terms: 1 June**

**Except Treasurer: 31 December**

**Please send correspondence to:**

**UWE SCHMITT**

**Federal Research Centre for Forestry & Forest Products (BFH)**

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## **MESSAGE FROM THE PRESIDENT**

This will be my final message to Fellows as President since my term of office will end in July, when Xavier Deglise will replace me.

One of the most enjoyable aspects of being President has been travelling to the annual gatherings of Fellows which began with the meeting in Reading in July 2000. This was inspired by the excellent conference held in Vancouver in 1997. Since then Fellows have met in New Zealand, Latvia, China and France. Meetings are planned in Chile in 2005 and Australia in 2006. By arranging the meetings in widely separated geographical regions it is hoped that Fellows who are unable to travel long distances for financial or other reasons will at least be able to meet other Fellows from time to time at venues nearer home. As with major conferences, such meetings are as much about making contact with colleagues as about the science that is discussed. Collaborations and friendships are formed whose value is real if difficult to measure. I believe I speak for all the Fellows who have attended the annual meetings when I say that they have been worthwhile and enjoyable and would urge Fellows to attend future gatherings if at all possible.

Wood science continues to be a thriving area of research, increasingly so as demand for forest products increases and new uses are found for wood and its products. These range from the conventional to the surprising, such as the use of phytosterols, produced as a by-product of the pulping industry, to lower cholesterol levels and improve health. The need to optimise productivity of forest trees while at the same time improving timber properties; to improve the efficiency of utilisation and quality of forest products, to develop new products and to reduce waste, will continue to provide employment opportunities for wood scientists. Young scientists entering this field should have no qualms about future demands for their services. This will ensure a potential flow of good candidates for the Academy and makes be optimistic about its future.

I have enjoyed my term of office very much, not least because of the goodwill and support I have received from Fellows. The incoming President has my best wishes and I am sure that he will serve the Academy well.

*John Barnett/Reading*

## MESSAGE FROM THE INCOMING PRESIDENT

My first message is to thank again all IAWS Fellows for their confidence by electing me in 2002 as Vice President to take over Presidency by June 2<sup>nd</sup> this year.

Taking over from Fellow John Barnett, I would take this opportunity to pay tribute to his contribution over the past three years. I am well aware of the efforts he has put into his activity...with a new Vice President who was involved for the first time in the management of IAWS and coming from a “Latin country”.

Among his achievements, one which started during his Vice Presidency was very important to simplify the process of nomination. We have seen an increase in the number and quality of nominations, with exception of this year, for the number! The Election Protocol remained a concern being pursued by him and now by the new EC.

The main achievement was to solve the problems with the relationships with Wood Science and Technology. After a lot of meetings and contacts to solve the problem of time-to-publication he has accepted to be Co-Editor of WST. This means that for at least the next three years or so the Executive Committee will have a representative directly involved in the journal. Good news have been given by Bob Kennedy in Montpellier, during the IAWA/IAWS joint meeting and confirmed by Gerd Wegener. The time between submission and publication is now down to between 9 months and a year. Rejection rates are now higher (about 40%), which hopefully will mean an increase in overall quality of published papers.

I have enjoyed very much working with a friendly and efficient Executive Committee and with the Fellowship Sub-committee and Teller’s committee. I am looking forward to working old friends, John, Frank (new vice President!), who has done so much for the Academy, Uwe (secretary in charge of heavy tasks, our “virtual” office and the bulletin!) and a new treasurer Howard Rosen, to continue to raise the level of our Academy among the community of wood scientists.

I do not want to forget the contribution of fellow Kent Kirk, our Past President, who has overseen the introduction of series annual Academy meetings for Fellows to maintain the position of IAWS as the leading world organisation in Wood Science.

After the meetings in Beijing, in 2002, Latvia in 2003, Montpellier in 2004, we are looking forward to meetings in Concepcion (Chile) in November this year, in Melbourne in 2006 and Vancouver in 2007. I would urge Fellows to support our meetings. They provide an opportunity to meet with other Fellows at a professional and social level, to discuss research and to help determine the future course of the Academy which is very important.

I hope that from the 14<sup>th</sup> to the 17<sup>th</sup> November, we will host numerous fellows for the 2005 IAWS meeting. It will take place in Concepción’s city, capital of the VIII Bío-Bío Region, heart of the Chilean forest and forest products industry. During our meeting in Bio-Bio

University we will have the opportunity to meet there the scientific community, engineers, and suppliers from Chile and Latin America and promote the field of Wood Science and Technology.

To be President of this prestigious Academy is often mentioned as an honour, but to me it carries a responsibility beyond having ones name on a letterhead, signing formal letters and chairing meetings...hopefully you will not regret having a French speaking President!

*Xavier Deglise/Nancy*

## **NEW VICE PRESIDENT**



Fellow Frank C. Beall was elected for Vice President and takes over on June 1. A short CV follows below.

Frank C. Beall is Professor of Wood Science in the Department of Environmental Science, Policy, and Management, University of California at Berkeley since 1988, and currently holds the Fred E. Dickinson Chair in Wood Science and Technology. He was Director of the UC Forest Products Laboratory from 1988 until its closure in 2003. (Fred Dickinson was the first Director of the Laboratory from 1955 to 1980 and a founding member of IAWS).

Professor Beall has a BS in Wood Utilization from The Pennsylvania State University (1962), and graduate degrees from the College of Forestry, State University of New York at Syracuse (Wood Products Engineering; MS, 1964; PhD, 1968). Prior to his appointment at UC, he worked for Weyerhaeuser (1977-1988) as a scientist/manager, had previous university appointments at Penn State (1968-1975) and University of Toronto (1975-1977), and was a researcher at the US Forest Products Laboratory (1966-1968). One of his specializations is in non-destructive evaluation of wood and wood-based materials using ultrasonic techniques; and more recently in seismic performance of wood-based shear walls and on fire effects on wooden structures at the urban-wildland interface. He has over 160 publications, including 11 patents.

His professional activities include IUFRO (Coordinator, Research Group S5.02, Physiomechanical Properties of Wood); Forest Products Society (past-President), Society of Wood Science and Technology (Fellow and past-President); Acoustic Emission Working Group (Fellow and past-Chairman), American Society for Nondestructive Testing, ASTM (past-Chairman of Committee D07 on Wood). He has received Distinguished Service Awards from the Society of Wood Science and Technology and the Acoustic Emission Working Group. Professor Beall is Associate Editor, Journal of Acoustic Emission; member of the Editorial Board, International Journal of Subsurface Sensing Technologies and Applications; and was Subject Editor, Wood and Paper, Elsevier Encyclopedia on Materials Science and Technology.

He has been a visiting professor at UNESP, Sao Paulo, Brazil; Nanjing, China: Forestry Research Institute, Rotorua, New Zealand, and served as Overseas Scientist, Review Team, Forest Products Output; Ministry of Research, Science, and Technology, New Zealand.

Frank and Mavis (an Australian native) have been married since 1973, moved to California in 1988, and have three children, Amanda (project manager, Boeing Aircraft), Mark (president, Simmetrix), and Alyssa (PhD candidate, Syracuse). Professor Beall became a Fellow in IAWS in 1994 and has served as Secretary-Treasurer (1996-2002) and Treasurer (2002-2005).

## **TREASURER'S REPORT**

The Treasury Report for 2004 is on a subsequent page. The net change for 2004 (\$2581.72) was less than that for 2003 (\$4034.53). At the end of 2004, 94% of the 128 Active and Retired Fellows were current in their dues. Interest from our Certificate of Deposit (CD) continues to be an important source of income (now about 10% even with a relatively low interest rate). In this past year, we increased our CD from \$20439.48 to \$30000 as per the plan to keep increasing the amount of the CD in order to keep the dues as low as possible. The current CD expires in March 2006, which may be an opportunity to invest at higher interest and perhaps increase the principal if warranted.

The Wells-Fargo checking account was closed in January 2005, and we now have a new checking account that will be managed by our assistant Treasurer, Howard Rosen. I will continue to be the Treasurer for 2005; on retirement from the US Forest Service at the end of 2005, Howard will become the official Treasurer.

*Frank Beall/Richmond*

**2004 IAWS TREASURY STATEMENT (\$US)**

Carryover from 2003	38230.36
Wells Fargo Checking Account	17790.88
Wells Fargo Certificate of Deposit	20439.48
<b>INCOME</b>	
Dues	6343.00
CD interest	705.94
CD principal deposited	20439.48
<b>TOTAL INCOME</b>	<b>27488.42</b>
<b>EXPENSES</b>	
Printing/Mailing Bulletins/Directory	2580.43
Academy lecture honorarium	300.00
Bank charges; transfer fees	381.01
President's expenses	1205.78
New bank checking account	2000.00
New CD account	30000.00
<b>TOTAL EXPENSES</b>	<b>36467.22</b>
Checking Balance 31 December 2004	8812.08
CD Balance	30000.00
New checking account	2000.00
Total Balance	40812.08
<b>Net change 2004 - 2003</b>	<b>2581.72</b>

I have examined the books of the IAWS Treasury Account for 2004 and have found all details in satisfactory order.

Arno P. Schniewind, Fellow, IAWS  
Professor of Forestry, Emeritus

## **ACADEMY LECTURE BY FELLOW HELMUTH RESCH**

The lecture will be given during the Forest Products Society Convention, Quebec/Canada on Monday, 20 June 2005.

### **Lecture Title: Trying to dry using High-Frequency Electric Current**

Among the many interesting topics in the field of Wood Science and Technology is a fascinating story about research and development on drying wood products with high-frequency electric current. Historically, it can be traced back over decades. Heat transfer to and evaporation of moisture from wood may be accomplished with high frequency current depending on its dielectric properties. Because wood is generally heterogeneous, these properties vary not only with the frequency of the current and the field orientation, but also with the moisture content, temperature, and density of wood.

Research on this technology has covered many products from paper and veneer to lumber and heavy timbers. Much emphasis, however, has been placed on wood species and/or products with larger dimensions that are difficult or impossible to dry when using conventional drying methods. The advantages were found to be rapid and fairly uniform heat transfer often to solidly stacked timbers, very high drying rates, and avoidance of significant case-hardening and oxidative discoloration of the wood.

During the last two decades, the development focused mainly on drying lumber in vacuum kilns using dielectric heating, often termed high-frequency/vacuum drying. It has been justified economically on the basis of increased throughput and higher quality. Existing industrial installations provide a positive picture for higher value products. The economics should improve with advances in available equipment, better basic understanding and more practical experience with operating industrial units. The combination of high-frequency/vacuum drying with other systems, such as moisture leveling after primary drying or pre-heating prior to the high-frequency/vacuum step, hold promise for further technical improvement.

### **The Lecturer**

Helmuth Resch is Professor Emeritus at the University for Natural Resources, Vienna, Austria, and Chair of Sector Group Wood Technology, Cooperation in Science and Technology (European Science Foundation) European Union. His education includes Diploma Engineer, Forest Engineering, University of Natural Resources, Vienna; MS at Utah State University, and returning to Vienna for the doctorate. Following this, he was as a faculty member in Wood Science at University of California, Berkeley.

He was then appointed Professor and Head, Department of Forest Products, Oregon State University, followed by Dean of Research at State University of New York, College of Environmental Science and Forestry, Syracuse. Helmuth then returned to Vienna as Professor and Head of the Institute of Wood Science and Technology, University Natural Resources, and Director of the Austrian Forest Products Research Laboratory.

Helmuth Resch is a member of the Forest Products Society and the Society of Wood Science and Technology; Fellow of the Indian Academy of Wood Science; Honorary Professor at Transilvania University, Brasov, Romania; and Honorary Doctor at University of Western Hungary, Sopron. His fields of interest include physical properties of wood and wood products, drying and impregnation of wood, production of plywood and other composite boards, and research management. He was elected a Fellow in IAWS in 1983.

### **IAWS PLENARY MEETING CONCEPCIÓN/CHILE, November 14-17, 2005**

The Universidad del Bío-Bío (UBB) in Concepción/Chile through its Timber Engineering Department (DIMAD) extends an invitation to the scientific community, engineers, and suppliers from Chile and Latin America to participate in the 2005 Meeting of International Academy of Wood Science and of the 10th Meeting on Wood Products Research and Developments.

The meetings will take place in Concepción's city, capital of the VIII Bío-Bío Region, heart of the Chilean forest and forest products industry.

As in previous meetings the objective is to provide an appropriate environment for scientists to discuss wood science, wood technology and wood products research and development. The topics for the meeting will include, among others, wood anatomy and wood chemistry, wood physics and wood mechanical properties, wood primary and secondary transformation, adhesives and wood composites, engineering products, wood biodeterioration and preservation, wood drying, wood biotreatments, and timber industry environmental impact.

We hope you will be able to attend and look forward to meeting you.

Preliminary Program		
	IAWS Meeting	10th Chilean Conference
<i>Monday 14th</i> <i>09.00 - 12.30 hrs.</i>	Registration and Opening Ceremony	
<i>Monday 14th</i> <i>14.30 - 18.00 hrs.</i>	IAWS Working session, Chilean invited papers and IAWS papers	Poster session during breaks
<i>Tuesday 15th</i> <i>09.00 - 12.30 hrs.</i>	IAWS Working session, Chilean invited papers and IAWS papers	Poster session during breaks
<i>Tuesday 15th</i> <i>14.30 - 18.00 hrs.</i>	IAWS Working session, Chilean invited papers and IAWS papers	Poster session during breaks
	IAWS Business Meeting IAWS Academy Dinner	10th Chilean conference working and poster session
<i>Wednesday 16th</i> <i>09.00 - 12.30 hrs.</i>	Technical visits and tourism for IAWS fellows and accompanying	10th Chilean conference working and poster session
<i>Wednesday 16th</i> <i>14.30 - 18.00 hrs.</i>		10th Chilean conference working and poster session
<i>Thursday 17th</i> <i>09.00 - 12.30 hrs.</i>	10th Chilean conference Working and poster session IAWS Academy Lecture	
<i>Thursday 17th</i> <i>14.30 - 18.00 hrs.</i>	10th Chilean conference Working and poster session	
	Closing Ceremony	
<i>Friday 18th</i>	FREE	

## Instructions to Authors

Articles written in English should include: Title, Abstract, Keywords, Introduction, Materials & Methods, Results & Discussion, Conclusions, and References. The first page should include (on separated lines): title, authors, affiliations, addresses, abstract, keywords, and the e-mail address of the corresponding author.

References should be cited in the text by giving the authors' surname and year of the publications. References should be listed at the end of the text in author's names alphabetical order.

*For example:*

Journal article (journal name in italic):

Astley, R.J.; Stol, K.A.; Harrington, J.J. 1998. Modelling the elastic properties of wood. Part 2: The cellular microstructure.

*Holz als Roh und Werkstoff* 56(1):43-50.

Book (title in italic)

Zobel, B.J.; Jett, J.B. 1995. *Genetic of wood production*. Springer-Verlag, Berlin.

Thesis

Ding, F.1999. The study of modern distributed parameter control: Application to lumber drying process. Ph.D. Thesis, Laval University, Quebec, Canada.

The metric system must be used. Symbols should be normally typewritten in italics. Their meaning should be clearly identified or explained. All equations should be numbered consecutively using numbers in parentheses on the right-hand margin. Figures, tables, drawings, photographs, illustrations should be used with discretion and included in the text. Their position within the text it must be clearly indicated. Manuscripts should be typed double-spaced in Times New Roman size 12. The original should be between 10 to 12 pages not including abstract, tables, figures, and references.

## Dates and Deadlines

Abstract submission

New deadlines June 30, 2005

Paper and poster submission

August 31, 2005

## Registration Fees\*

Before August 30, 2005

- Participants US\$ 270

- Students US\$ 100

After September 1, 2005

- Participants US\$ 300

- Students US\$ 120

## **THE UNIVERSIDAD DEL BÍO-BÍO IN CONCEPCIÓN/CHILE**

The Universidad del Bío-Bío carries out its academic activity in the Bio Bio Region, placed in the southern central area of Chile, between the parallels 36° 00' South and from 71° 00' West to the Pacific.

*The Region has an area of 37.062,6 square kilometers and its population is about 1.861.000 inhabitants.*

The region is characterized by its mountains, valleys, native forests, and plantations. It has a rich urban vegetation, rivers, lakes, and lagoons. Because of the nearby Pacific Ocean beaches its weather is mild with well defined seasons.

Among its natural resources we find forestry, fishing and agricultural products. Its economic structure is centered mainly in the industrial, forestry, agricultural, fishing, business and service sectors. It also has an important dynamic small and middle size industry.

### ***The University Historical Background***

The Universidad del Bío-Bío – UBB- was born to public life on September 29, 1988 from the merger of the Instituto Profesional de Chillán and the Universidad del BíoBío. Its academic work covers the humanities and technology

It has two Campuses: the Concepción Campus, in the Region's capital, and the Chillán Campus, in the capital of the province of Ñuble.

The Universidad del Bío-Bío considers within its academic structure six faculties, formed by departments and schools dedicated to teaching, research and extension of disciplines of the same areas. Among its faculties is found the Engineering Faculty.

### ***The Timber Engineering Department***

The Department of Timber Engineering at the Universidad del Bío-Bío is one of the five departments in the Faculty of Engineering and it has the tripartite mission of highest quality teaching, research, and extension in wood science and technology. The department is dedicated to providing the highest quality undergraduate and graduate education with broad-based training focusing on the fundamentals on wood science and technology.

The department have 14 full time and 4 part time faculties. Their research work is focused on the areas of wood properties, wood biodeterioration, wood treatments, wood composites and adhesives, wood structures and engineering products, and process automatization and operations management. Several research and development projects are currently underway with support from government and regional state agencies.



Engineering Faculty of the BioBio University in Concepción

At the undergraduate level, the department offers a four and a six year programs, the former to prepare a more applied professional and the latter to prepare a more scientific professional with strong specialization in management. At the graduate level, the department offer a M.S. degree in wood science and technology, and by the end of this year, it will also offer a Ph.D. degree in wood science and wood forest industries. The Departments has 280 undergraduate students and 18 graduate students.

Recently it was awarded to the Timber Engineering Department, through the Ministry of Education, a US\$1.000.000.- grant to upgrade the current programs to the present and future needs of the forest products industry. A large new building will be built and also old laboratories will be remodeled.

*Text provided by Prof. José Navarrete, local organizer of the meeting*

## NEWS OF FELLOWS

### **As for metal also wood ‘flows’ and can be welded, a discovery rewarded by the Schweighofer Prize for Innovation in Wood Science**

The Schweighofer prize on innovation in wood science has been delivered on the 13<sup>th</sup> of June in Vienna (Austria) to a joint Swiss-French team of 10 researchers led by **Fellow A. (Tony) Pizzi** for their work on wood welding. Wood welding is a mechanical friction process allowing the assembly of timber without any use of adhesives. The joint team awarded the prize is composed of researchers of the LERMAB-ENSTIB, a joint research unit INRA/ENGREF/University of Nancy 1, of the CNRS (ENSCMu), of the HSB (The Swiss Wood Engineering School) in Bienne, and of the LERFoB of the INRA.

The research team involved has developed a wood bonding process that eliminates the use of adhesives in furniture and interior joinery bonding. Acrylic and vinyl adhesives contain sometimes small residues of their monomer of origin which are toxic or polluting. The use of these adhesives is moreover expensive and requires several hours of hardening to obtain a finished bonded joint.

Glueless wood welding instead, is very quick. The process consists in applying rapid, alternating mechanical friction to the two wood surfaces to be welded, under some pressure. The equipment for this type of work already exists as it is used to weld thermoplastic joints as used in the car industry. This process can be applied to weld two flat pieces of timber, of the same or different timber species, and can be applied to the manufacture of furniture and wood joinery. The only limit is that the joint is not exterior-grade, but only suitable for interior joints. One can also speak of ‘weldlam’ rather than ‘glulam’.

The second process developed is high speed rotation welding of dowels. A dowel in rapid rotation inserted by means of a simple electric drill into a substrate welds in 2 seconds to the substrate with a mechanical resistance 20 times greater than the traditional hammer inserted dowels, and with a strength comparable to dowels glued-in for 24 hours with PVA adhesive, all this without the use of an adhesive. This approach is particularly suitable for any small to medium company, workshop and DIY enthusiast as a standard inexpensive wood drill, is the only equipment needed.

The Schweighofer Prize has been established in 2003 by an Austrian sawmilling family wishing to foster innovation and transfer of novel technologies in the wood industry. Every two years 300,000 Euro are awarded, divided between a main prize for work already extensively commercialized, and 4 prizes on innovation of 50,000 Euro each, one of which, the one won by the mechanical wood welding process is concerned with innovation in wood science, for work still at the stage of development or of initial technology transfer.

The prize-giving ceremony took place on Monday the 13<sup>th</sup> of June, in Vienna's city hall, during a gala evening under the patronage of the Austrian Federal President, Dr Heinz Fischer.

Detailed information on the Schweighofer Prize can be found on the web site <http://www.schweighofer-prize.org/>

## OBITUARIES

### Josef S. Gratzl (1929-2004)



**Professor Josef S. Gratzl** died on December 2, 2004. He was born and educated in Austria and received his PhD in Chemistry from the University of Vienna. He emigrated with his family to the US in 1969. After 2 years on the faculty of the University of Washington in Seattle in 1971 he joined the faculty of the Department of Pulp and Paper Science at North Carolina State University, where he carried out research and taught for more than 30 years. Joe was a main figure in developing this research institution into one of the leading centers of cellulose and pulping chemistry worldwide. He was an ardent teacher and major adviser to close to 80 postgraduate students and PhD candidates. He certainly was one of the rare teachers who are able not only to convey knowledge, but also to shape personalities and to convert young researchers into responsible and dedicated scientists.

As an internationally known scientist he also worked with dozens of postgraduate associates and visiting scientists from all over the world, supervised habilitation theses, and was a member of countless committees and commissions. His main goal in his professional career was to integrate fundamental science with practical application in the paper industry. In addition to his teaching and research, he was very active in giving lectures and seminars in renowned institutions, universities and research centers all over the world. Serving as a consultant to international agencies, he was involved with the Organization of American States (OAS), and the Education and Science Organization (UNESCO) and Industrial Development Organization (UNIDO) of the United Nations. He participated in several projects to establish or improve process technologies in developing countries. He was always involved in cutting-edge research, an example of which was his scientific supervision of the introduction of the first oxygen-based bleaching system

worldwide at an Austrian company. During his long and fruitful career he received many national and international awards. He was especially proud of the Anselm Payen Award of the American Chemical Society and medals from the both Austrian and German Chemical Societies for his research on cellulose, lignin, and pulping chemistry. In 1977 Joe was named Elis-Signe Olsson Professor and in 1985 a Distinguished Graduate Professor. He was named Concurrent Professor of Chemistry at Nanjing Forestry University and Honorary Professor of Chemistry, Guangzhou Institute of Chemistry, Academia Sinica, People's Republic of China. Joe also held an Honorary Doctorate Degree from the St. Petersburg Forestry Technical Academy, St. Petersburg, Russia. He left behind Margit Gratzl, his wife of 40 years, and their daughters Uli Gratzl of Raleigh and Martina Midkiff of Wake County; sons-in-law, Doug Little and David Hess; grandchildren, Emma and Benjamin Little of Raleigh; stepmother, Josefa Gratzl; sisters, Johanna Resch and Eva Pohl and their families; brothers, Ludwig and Wolfgang Gratzl; and their families, all of them in Austria. Many of us, his former students, are tremendously indebted for his scientific guidance and his personal generosity. We were not only accepted at his institute, but received a warm welcome in his home, where we were lucky to live as quasi-members of his family during our stay at NC State University. Thus, we were able not only to recognize Joe as a scientific mentor and teacher, but also as a fatherly friend. Joe was for most of his students a key figure during their professional formation. This is by no means an exaggeration: Joe had a decisive influence on the course of our scientific careers. He was not only a protagonist in cellulose and lignin chemistry – as most of his co-workers and colleagues will remember him – he was also a marvelous, good-natured, and amiable man. Thus, not only has the scientific community lost one of its leading experts in the field of radical chemistry, oxygen bleaching, and pulp and paper; his friends and former students are also mourning together with his family. We know that not only will Joe's scientific legacy persist, but his crowning achievements as a teacher of human qualities will also live on in the hearts of his students and friends. We wish his family, especially his wife, Margit, much strength and a positive attitude towards the future.

*Department of Chemistry, University of Natural Resources and Applied Life Sciences, Vienna:*

*Thomas Rosenau and Antje Potthast on behalf of his countless former students, as well as his colleagues, co-workers and friends.*

*(with permission of Walter de Gruyter GmbH u. Co. Kg, Berlin, Germany / appeared in: Holzforschung 59/2 (2005): 109)*

**Takashi Okuyama (1943-2004)**

It is with profound sadness that we announce the untimely death of Prof. Takashi Okuyama, School of Bio-agricultural Sciences, Nagoya University Japan in a traffic accident

on 20 November 2004. His departure is a great loss not only to his family (wife and two children) but to the whole international forest research community, including IUFRO. He made pioneering contributions in the area of growth stresses, their distribution and determinations/ measurement in both temperate and tropical timber species and was one of the world authorities in tree growth stresses. His contribution in the field of Wood Science & Technology include : Time and temperature dependency of the mechanical properties of wood, Studies of generation mechanism of tree growth stresses, Growth stress reduction, Wood qualities of tropical/subtropical plantation species ( Nagoya University 1966-2004), His initiatives in implement-

ing the cooperative research programmes on plantations of tropical countries over the past decade and organising tropical timber exhibitions in Japan contributed substantially to the cause of tropical timber development programme. He had the professional recognition from the Award of the Japan Wood Research Society Prize for 1993, Elected Fellow of International Academy of Wood Science (1995), Vice President of Japan Wood Research Society (2003), A member of ITTO expert panel.(2001-2003). His active participation in IUFRO activities over the past two decades and lately in serving as Deputy Coordinator of IUFRO 5.06 Research Group and as Coordinator of IUFRO 5.06.02 Working Party (Utilisation of planted teak) since 2001 will be remembered by all his colleagues.

***K.M. Bhat/Kerala***

## UPCOMING MEETINGS OF INTEREST TO FELLOWS

**July 17-23, 2005:** 17th International Botanical Congress, Vienna/Austria

On behalf of the Organising Committees we would like to extend a warm “Welcome to Vienna”. You are cordially invited to participate in the XVII International Botanical Congress (scientific sessions and Nomenclatural Section) during 12–23 July 2005 in Vienna, Austria. As with previous International Botanical Congresses, this conference will emphasize the newest developments throughout the botanical sciences world-wide. There will also be an historical flavour to IBC Vienna 2005, as the Second International Botanical Congress was held in Vienna in 1905, exactly 100 years ago. The program of XVII IBC 2005 includes all aspects of basic and applied botanical research. Progress in the different sub-disciplines will be illustrated through plenary talks, general lectures, symposia, and poster sessions. Ample meeting space will be provided for specialized workshops, small group meetings, and ad-hoc discussions. There will also be a large exhibitor area including booksellers, publishers, laboratory equipment manufacturers, societies, etc., designed to demonstrate the newest products and applications in the botanical sciences. The international character of IBC Vienna 2005 will help to broaden our scientific horizons and facilitate and strengthen personal contacts with colleagues throughout the world. Vienna is an international city and has long been a gateway between western and eastern European countries. We especially encourage young scientists to participate, and toward this end, the registration fee for students has been kept as low as possible. The scientific contents and significance of IBC Vienna 2005 are determined by contributions from the participants. These will result in a broad and remarkable diversity of specialized symposia, plus general lectures summarizing current and newly developing botanical frontiers. Opportunities also exist for visiting the many university facilities, libraries, and rich botanical collections throughout the city, as well as for participating in numerous field excursions in fascinating European destinations. We cordially invite you, therefore, to present your newest research results at this international forum and to interact with colleagues during discussions and coffee breaks. We also remind you to enjoy the wonderful city and surroundings of Vienna – the former capital of the large and elegant Habsburg monarchy, which was a major influence in Europe for more than 600 years. Now, after the fall of the Iron Curtain and the most recent accession of several countries to the European Union, Vienna continues to play an important role in Central European culture and politics. Above all, we wish you a stimulating, productive, and successful conference as well as a pleasant stay!

Sincerely yours

[www.ibc2005.ac.at/](http://www.ibc2005.ac.at/)

*Marianne Popp, Michael Hesse, Tod Stuessy, Harald Bolhar-Nordenkampf* (Organizing Committee)

**August 8-13, 2005: IUFRO World Congress, Brisbane/Australia**

On behalf of the International Council and the Executive Board of IUFRO, I invite you to attend the XXII IUFRO World Congress being held in Brisbane, Queensland, Australia, 8–13 August 2005.

This is the first time in the long history of IUFRO that our World Congress will be held in the Southern Hemisphere. More than 2500 participants are expected to travel to Brisbane for the Congress. An innovative and challenging scientific program is being developed. The theme for the Congress, *Forests in the Balance: Linking Tradition and Technology*, will set the tone of the discussions at the Congress. The main theme is supported by ten sub-themes that will guide the presentations to issues that are important for the future of the forest sector. The presentations will be given in traditional plenary, sub-plenary and specialist meetings along with a comprehensive poster program. In addition to the five-day scientific program, the Congress will also include a full-day in-congress tour and a number of post-congress excursions with technical, sightseeing and cultural components. An industry exhibition will be staged as part of the congress and will feature state-of-the-art technologies, research agencies, universities, environmental organisations and others. The XXII IUFRO World Congress represents a significant change in the focus from scientists talking to scientists to scientists interacting with the global community. The scientific program will demonstrate the progress that forest researchers have made in solving the problems faced by other forest stakeholders: policy makers, managers, educationalists and the general public. I would like to put on record IUFRO's and my own sincere gratitude to the Congress Organising Committee and the Congress Scientific Committee for their hard work in preparing this Congress. We are also very grateful to the State and Federal Government Agencies in Australia for their irreplaceable support, and to our corporate sponsors who we recognise as our valuable partners in ensuring the success of the event.

See you in Brisbane in August 2005!

[www.iufro2005.com](http://www.iufro2005.com)

*Risto Seppälä* (IUFRO President)

**September 12-14, 2005: Japanese-European Workshop “Cellulose and Functional Polysaccharides”, Vienna, Austria**

E-Mail: [atcellulose@boku.ac.at](mailto:atcellulose@boku.ac.at)

**September 12-15, 2005: International Bioenergy Conference and Exhibition, Jyväskylä/Finland**

The Wood Industry is a big actor in the bioenergy sector. The industry is a big biofuel producer for the market and biofuel users. The conference is held 12th -15th September 2005 in connection with the International Bioenergy and Wood Exhibition in Jyväskylä, Finland. The Conference will focus on the factors affecting the future of the bioenergy opportunities in fuel production, heating and power production in wood industry. The

topics are timber felling wood residues as fuel, industrial by-products as biofuel, by-product refining to pellets and their use for heating and power production in the wood industry. Also emission trading will be one topic. Technical excursions will be held after the conference. Bioenergy 2003 with over 600 participants was organised by FINBIO.

<http://www.finbioenergy.fi/>

Dan Asplund, Jyväskylä Science Park Ltd, Finland

**October 6-7, 2005:** Second European Conference on Wood Modification, Göttingen/Germany

Following the success of the First European Conference on Wood Modification held in Ghent, Belgium in April 2003, we are pleased to announce the second conference, to be held in Göttingen, Germany in October 2005.

The conference will be organized jointly with the **European COST Actions E37 “Sustainability through new technologies for enhanced wood durability”** and **COST E44 “Wood processing strategy”**.

The conference will provide a forum where experts from research institutes and commercial companies in areas relating to wood modification can present developments in this subject. Anyone worldwide, with an interest in wood modification is invited to attend, whether from an academic or industrial background.

Prof. Dr. H. Militz

[www.ecwm.uni-goettingen.de/home/](http://www.ecwm.uni-goettingen.de/home/)

[bjunge1@gwdg.de](mailto:bjunge1@gwdg.de)

**November 14-17, 2005: Joint IAWS Plenary Meeting / 10<sup>th</sup> Chilean Conference on Wood Science and Technology, University Bio-Bio, Concepcion/Chile. (see detailed announcement inside of this Bulletin)**

**December 1-5, 2005:** 6<sup>th</sup> Pacific Regional Wood Anatomy Conference (6<sup>th</sup> PRWAC), Kyoto/Japan

I am pleased to invite you to the 6th Pacific Regional Wood Anatomy Conference (PRWAC) held in Kyoto from December 1st to 5th, 2005.

Kyoto is one of the most important cultural center in Japan. For over 1,000 years, Kyoto was the capital in Japan. 20% of national treasures of Japan can be found here. Participants of the conference will enjoy the atmosphere of ancient history. 75% of our land is covered by mountains and the forest vegetation is particularly rich compared with other countries at the

same altitude. From this could develop so-called the “culture of wood” here in Japan. The conference will cover wide range of topics in wood anatomy and related subjects.

On behalf of the Conference Committee, I wish you an exciting conference!

Prof. Dr. Takao Itoh

Chairperson of the Conference Committee

[www.jwrs.org/cnf/6thPRWAC/](http://www.jwrs.org/cnf/6thPRWAC/)

E-Mail: [prwac6@kais.kyoto-u.ac.jp](mailto:prwac6@kais.kyoto-u.ac.jp)

**December 15-20, 2005:** Materials, Chemicals and Energy from Forest Biomass, Honolulu/USA

The International Chemical Congress of Pacific Basin Societies has been established to disseminate recent research results in the chemical sciences among chemists of the Pacific Rim countries, thereby fostering industrial development, improving local and global environments and the material well-being of their peoples.

[www.pacificchem.org/c\\_abstracts](http://www.pacificchem.org/c_abstracts)

E-Mail: [dsargyro@NCSU.edu](mailto:dsargyro@NCSU.edu)

## NEW BOOKS

The following book was recently published under the author- or co-authorship of IAWS Fellows or IAWS Fellows as editors.

**Wood Fibre Cell Walls: Methods to Study their Formation, Structure and Properties**

Edited by: Uwe Schmitt, Paul Ander, John R. Barnett, Anne Mie C. Emons, George Jeronimidis, Pekka Saranpää, Stefanie Tschegg

This book presents the latest information about structure and chemistry of fibre cell walls. Much of the information has been already shared through five workshops held in Athens, Uppsala, Grenoble, Reims, and Helsinki. Scientific contributions from the Management Committee and Working Group members constitute the basis of this book. Chapters cover a wide field of wood and fibre cell wall research and reflect the vast amount of work done from 1999 until 2003. A great deal of this work is the result of European cooperation in the COST system.

Swedish University of Agricultural Sciences, ISBN 91-576-6803-5 (SLU, Uppsala), 308 pages

**Free download under the following webpage:** <http://www-wurc.slu.se/Documents/docs.htm>

## **GUIDELINE FOR HIGHLIGHTS**

**The purpose of the Highlights, published in the Bulletin, is to promote the integration of the fields of wood science. Fellows are encouraged to submit Highlights to any of the Officers!**

**Highlights should:**

- \* be free of jargon and highly technical language and (unexplained) acronyms, and be readily understood by wood scientists in other fields**
- \* be no more than 1000 words (roughly 4 pages in the Bulletin)**
- \* begin by providing a brief background or framework to put the report in perspective**
- \* give due credit to the work of others in the field, not just summarize the author's work**
- \* contain important references to the literature for further reading**
- \* finish with a statement of future directions in the area**

## FELLOW NOMINATION FORMAT

The format for nominations of Fellows is given below. Note that the submission is limited to two pages and that the preferred method is by e-mail. An electronic template is on the IAWS web page (<http://www.bfafh.de/iaws/>). Submit nominations to Vice President Deglise (Xavier.Deglise@lermab.uhp-nancy.fr).

### NOMINATION FOR FELLOWSHIP INTERNATIONAL ACADEMY OF WOOD SCIENCE

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Nominator \_\_\_\_\_

\_\_\_\_\_ Date

**CANDIDATE:** Name, title, affiliation, addresses (business, home), contact numbers (telephone, fax, e-mail address).

**50-WORD CITATION:** Summary of science basis for the nomination. Begin statement with: “For major contributions to understanding...”

**CURRICULUM VITAE:** Year, city, and country of birth. Year of naturalization in other country if applicable.

**DEGREES** (years and institutions); Professional positions held at one/several institutions, ending with current position.

**MAJOR AWARDS AND HONORS,** leading positions, significant memberships, visiting positions, editorial boards, consultancies (only topics relevant to the candidate’s activities within wood science).

**PRINCIPAL SCIENTIFIC ACHIEVEMENTS:** Maximum 250 words.

**PUBLICATIONS:** Summary of number of published scientific articles, reports, patents, etc. Citations for the 12 (maximum) principal scientific publications listed in chronological order. All authors to be listed in published order.

# IAWS

