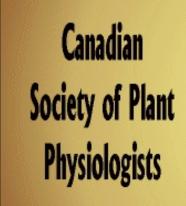
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Société Canadienne de Physiologie Végétale

June 2008 Juin 2007

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Annual Meeting of the Canadian Society of Plant Physiologists

Assemblée annuelle Société Canadienne de Physiologie Végétale University of Ottawa

June 14-17, 2008 14-17 juin 2008

MESSAGE FROM THE PRESIDENT



Fifty years is a long time and yet it is still a very human time span. For us the latter is significant because we can celebrate this anniversary with some of the founding and early members of our society. I am very pleased that fortunes have smiled on our group so that we find

ourselves at our 50th anniversary to be a robust and vibrant organization that is capable, for example, to encourage our emeritus members to participate in this celebration by paying for their registration at the event. A small gesture, that that acknowledges that it was not only fortune that put us in this position, but a lot of dedicated people who believed in the society and the various roles it plays in promoting the exchange of information about plant science, fostering the development of young plant scientists and honouring those that take us to new levels of understanding in plant biology.

The business of the society is varied and addresses many stages of a scientific career. Perhaps because the distances are so large and we know that relationships are important, we have a long tradition of supporting graduate student travel. This year we were able to increase the support for graduate student travel to over \$10,000. A new scholarship, endowed by Ann Oaks, a former CSPP Gold Medal recipient, will be awarded for the first time this year. Last year was the first time the Ibrahim Award for the best student paper was awarded; this is a significant addition to the range of honours that the society bestows on students since it encourages the planning, execution and, most importantly, communication of research in a mature form that can pass the most rigorous scientific review. This is what we strive to teach our students.

At the other end of a scientific career we are looking forward to hearing Tony Glass from UBC address the meeting in his Gold Medal address. He has enticed us with an intriguing title, "Pissing About with Positrons (and plasmids and phertilizers)".

The second half of the history has been chronicled by our archivist Connie Nozzolillo. In her "History Of The Second Twenty Five Years Of The CSPP/SPCV" Connie paints a picture of a society that has reached a

stage of confidence about its long term future. Membership has been relatively stable over a number of years and includes a good number of students. Over the fifty years the methods of communicating between locations and at meetings has changed enormously from snail mail to email, from slides to Powerpoint presentations and from paper copies of the Newsletter to the electronic Bulletin.

Connie reminds us that if we want to have a history we need to ensure that the significant moments and events are documented in a robust and lasting way. Thank you Connie for all of your efforts to preserve our history and tell our story.

In this regard, the journal Botany will publish a special collection of articles based on the presentations at the 50th annual meeting. Thank you to the members of the annual meeting organizing committee who (enthusiastically) accepted the task of serving as special editors for this project. This will serve as a lasting legacy of the scientific understandings and questions of our era and provides another link with the founding of the CSPP. The first Scientific Meeting of the Canadian Society of Plant Physiologists held June 1st-3rd, 1960, in Toronto was published in the Canadian Journal of Botany.

We expect a good crowd to be in Ottawa to participate in the celebration; more than 300 people have registered. The local organizing committee has done an excellent job of planning the program and making the arrangements for oral and poster sessions. The program brings an interesting group of scientists from a number of countries to speak to us about their work but also includes opportunities for many of our best to update us on their discoveries.

The meeting program includes six Plenary sessions on: Bioenergy and BioFuels, Plant Natural Products, Cellular Communication, Communication with Micro-Organisms and Plants in New Environments. Contributed papers will be given in concurrent sessions on: Carbon and Nitrogen Metabolism, Biotic Stress, Photosynthesis, Development, Trace Elements Phytoremediation, Teaching and Education, Employment and Training, Abiotic Stress, Secondary Metabolism and Biotechnological Applications. The meeting will conclude with a CSPP 50th Anniversary public lecture by David Bergvinson, of the Global Development, Bill & Melinda Gates Foundation. He will speak on the World Food Crisis: Agricultural Development and the Role of Science. I am looking forward to some interesting (and informed) debate on the choices society is making about bioresources. Surely, given the concern about global food security and the recent UN forum on that topic, this is absolutely perfect timing.

Many thanks to the local organizing committee, including John T Arnason (co-chair) and Brian Miki (co-chair), Christiane Charest, Douglas A Johnson, Susan Aitken, Tim Xing, Leo Savitch, who took on the enormous task of organizing the scientific meeting and our 50th anniversary celebration.

I look forward to seeing many of you there. For those that can't join us, have an enjoyable and fulfilling summer.

Peter Pauls, President

REPORT ON THE 2007 CSPP EASTERN REGIONAL MEETING



The CSPP Eastern Regional Meeting (ERM) was held on December 1, 2007 at of Western Ontario in

London, Ontario. The ERM hosts/coorganisers were Profs. Mark Bernards, Norman Huner and Denis Maxwell, all of University of Western Ontario. The meeting was a great success with 190 registrants, 28 contributed talks and 83 posters. CSPP student members were adjudicated for the quality of the

seminars or poster presentations (see below). Participants came from a significant number of different universities from across the eastern region.

The meeting featured three excellent keynote speakers: Dr. Brenda Winkel, Virginia Tech: "Expecting the unexpected: lessons learned from the flavonoid

CSPP HISTORY AT A GLANCE

- Colloquium on Problems of Plant Metabolism" convened by George H. Duff, Professor of Plant Physiology, at the Botany Department, University of Toronto, November 3-4
- Second Annual Plant Physiology Conference held at the National Research Laboratories, Ottawa, November 4-5, convened by Duff's former student, Dr. Kenneth A. Clendenning passed a motion that "A recommendation be submitted to the National Research Council for the formation of a National Committee on Plant Physiology and Plant Biochemistry to serve as a central organization for the promotion and correlation of fundamental and applied research, and to act as a central consulting body to advise research organizations in Canada on problems and research projects in this field."
- 1950- 1958

 Annual Research Conferences on Plant Physiology, convened by: G.H. Duff, K.A. Clendinning, G. Krotkov, D.L. McLarty &W.H. Minshall, E.R. Waygood & M. Cailloux, D. Siminovitch, R.O. Bibbey, W.D. MacClement, S.A. Brown
 - Society officially founded on October 27, 1958 in Saskatoon
 Saskatchewan
 - first Scientific Meeting of the Canadian Society of Plant Physiologists held June 1st-3rd, 1960, in Toronto, with 88 registrants
 - Society renamed The Canadian Society of Plant Physiologists/La Société Canadienne de Physiologie Végétale
 - 1965 first Newsletter published by CSPP
 - first Eastern and Western Regional Meetings held in January at McGill University and the University of Alberta, respectively
 - first CSPP Society (Gold) Medal awarded to Dr. A.C. Neish; for outstanding public contributions or for distinguished service to plant physiology in Canada 1970
 - 1973 first joint meeting with American Society of Plant Physiologists held in Calgary
 - fully integrated meeting held with Canadian Federation of Biological Sciences
 - first C.D. Nelson Award to recognize young plant physiologists (age limit 40) whose "outstanding research contributions" showed "originality and independence of thought"; awarded to Derek Bewley
 - joint meeting held with the International Association for Plant Physiology in Calgary
 - first Gleb Krotkov Award for service to the Society given to Dorothy
 Forward

 Forward
 - 1988 first award in Tree Physiology given to Dick Pharis
 - E.R.Waygood student award for the Western Regional Meeting established and awarded
 - 1988 President's awards for student presentations begun
 - 1992 awards for student travel to meetings initiated
 - 1993 CSPP/SPCV Inc and CSPP/SPCV established
 - 1993 final exclusively "hard copy" Bulletin published in October
 - 1999 Society website initiated with Michael Stasiak as web master
 - 2003 First meeting of the Federation of Canadian Plant Science Societies (Plant Canada) in Antigonish
 - Ragai Ibrahim award for best paper published by a student paper first awarded
 - 2008 Ann Oaks Scholarship, funded by the estate of Ann Oaks, awarded

pathway"; Dr. Eran Pichersky, University of Michigan: "How plants evolve the ability to make so many specialized metabolites"; and Dr. Kryzsztof Szczyglowski, Agriculture and Agri-Food Canada: "Cytokinins in symbiosis: new insights into old hypothesis". The keynote seminars were of the highest quality, and thought provoking. While the keynote

seminars were run as stand-alone sessions, the remainder of the seminars were run in two concurrent sessions. Organising the schedule in this manner allowed all students to present seminars at the single-day meeting.

Over 100 students were considered for the two student awards. The seminars and posters were judged by Drs. Barb Moffat (Waterloo), Lewis Lukens (Guelph), Dario Bonetta (University of Ontario Institute of Technology), Keiko Yoshioka (Toronto), Vincenzo DeLuca (Brock), Harold Weger (Regina) and Malcolm Campbell (Toronto). There was unanimity amongst all adjudicators with respect to the choice of the student awards. It is important to note that the adjudicators all found the quality of the seminars, in general, to be good (with some truly outstanding) and the posters to be excellent.

The award winners were as follows:

Best Student Poster (Regional Director's Poster Award): Bogumil Karas (Agriculture & AgriFood Canada / UWO) for: "Cellulose synthase-like D protein is required for root hair morphogenesis and root nodule symbiosis in L. japonicus". Mr Karas was commended for outstanding comprehensive and elegant analyses, beautifully and clearly presented.

Best Student Seminar (Regional Director's Seminar Award) Tyng-Shyan (Linda) Huang (Agriculture & AgriFood Canada / UWO) for: "The cDNA library screen and functional characterisation of host proteins associated with Plum Pox Virus infection". Ms Huang was commended for the very high quality of work and outstanding delivery of data in her beautiful presentation.

There were several honourable mentions made by the adjudicators. They were:

Michelle Gabriel (AgCanada), Dylan Levac (Brock) and Will Urquhart (Toronto), all for their excellent posters on protein structure-function analyses that are truly at the forefront of modern plant biology.

Daniel Fingrut (UWO), for his excellent poster presentation on the analysis of the involvement of non-coding RNA in the regulation of Mo cofactor

biosynthesis in Chlamydomonas.

Greg Perry (Guelph), for his dynamic presentation on bacterial blight of Phaseolus.

Danielle Way (U of Toronto), for her professional and data rich presentation of classical plant physiology to

address a timely issue involving plant responses to elevated temperature.

Uday Divi (UWO), for their beautiful presentation of their detailed characterisation of brassinosteroids and other phytohormones in Arabidopsis stress response.

Glen Uhrig (Queen's), for his clear presentation of elegant experiments using co-immunoprecipitation to investigate the interaction between PEPC and PDH.

Tina Wambach (Guelph), for her clearly presented, beautiful sequential hypothesis tests that explored the interplay between genetic variation, transcriptome remodelling and the osmotic stress response in maize.

In all the meeting was impressive in its scale, scope and quality, particularly for a one day meeting. The single day nature of the meeting kept costs low and interest high. The organisers are to be commended for executing such an excellent meeting, and the participants (particularly the presenters of posters and seminars) are to be commended for ensuring that the quality of science was so high.

The details of the 2007 ERM are published as Proceedings of the Canadian Society of Plant Physiologists/ Délibérations de la Société Canadienne de Physiologie Végétale .

Eastern Regional Meeting 2008

Organisation for the 2008 ERM is well under way, and will be a joint meeting with the Plant Development Workshop. The meeting is being co-organised by Profs. Malcolm Campbell (Toronto) and Tim Dickinson (Royal Ontario Museum). The meeting will be held jointly at the Royal Ontario Museum and U of Toronto during on the evening of December 5th and all day December 6th, 2008, and will feature the following confirmed keynote speakers: Drs. Jen Sheen (MGH-Harvard), Quentin Cronk (UBC) and Mike Emes (Guelph).

Malcolm Campbell Eastern Regional Director

TREASURER'S NOTES



The CSPP is in relatively good financial shape these days, largely due to profits generated by recent annual meetings and also by continuing stable membership numbers. While it is not the goal of the CSPP to accumulate money, the good financial shape has meant that we've been able to increase the

money available to support the Duff Student Travel Bursaries for student travel to the annual conference. The Duff Student Travel Bursaries program had typically awarded \$3000 to \$3500 for student travel to the annual conference. Starting in 2005, and continuing through 2006 and 2007, the Society was able to award approximately \$6000 per year in travel bursaries. For 2008, in honour of the Society's 50th anniversary meeting (and the fact that student attendance at the

Ottawa meeting promises to be very high), we have been able to allocate slightly over \$10,000 to student travel. As Treasurer, I am very pleased that the Society has been able to provide this level of support for the travel bursary program, and I believe that this is a program that the Society membership strongly supports.

The Student Travel Bursary program is funded from a combination of two sources: donations to the Fund made by CSPP members, and from general Society revenues. We've been averaging slightly over \$1000 per year in donations, and the remainder of the bursary is funded from general revenues. One of my goals as CSPP Treasurer is to be able to maintain elevated levels of funding allocated to the Student Travel Bursary program for coming years.

Harold Weger, Treasurer

ANN OAKS DOCTORAL SCHOLARSHIP

The Oaks Scholarship is valued at \$21,000 per year (equivalent to NSERC's PGS-D), and like the PGS-D, is renewable for up to a total of three years of support.

Potential candidates for the scholarship were identified with the aid of NSERC, as part of the NSERC post-graduate awards program. The Board of Trustees is very grateful for NSERC's help, especially to Robert Courchaine who spent much time on this effort. Former CSPP Secretary Pierre Bilodeau, who now works for NSERC, will make a presentation about the Oaks Scholarship at the upcoming Ottawa conference.



The Ann Oaks Doctoral Scholarship is named in honour of the late Dr. B. Ann Oaks, a long-time member of the CSPP-SCPV. The Scholarship was initiated by Dr. Oaks via financial gifts to the Society. Additional donations have been made by CSPP members

(approximately \$1200 has been donated by Society members to the Oaks Scholarship Fund every year). The

Oaks Fund is under the management of BMO Nesbitt Burns. The goal is to maintain the principal so that the Fund is self-sustaining. The Fund currently contains approximately \$420,000.

Ann Oaks received a BA (Honours Biology) from the University of Saskatchewan in 1954 and 1959, respectively. She was a faculty member in the Department of Biology at McMaster University from 1965 to 1989, and an adjunct faculty member in the Department of Botany at the University of Guelph from 1989 to 1999. She was Professor Emeritus at McMaster University, and in 2004 was awarded a DSc from McMaster. For most of her career Ann's research focused on plant nitrogen metabolism, especially in maize seedlings. She was a fellow of the Royal Society of Canada, and a recipient of the Society (Gold) Medal from the CSPP-SCPV.

It's been a long process (several years) to get to this stage of awarding the scholarship, and I believe that Ann would be pleased at how the scholarship process has unfolded and that we have been able to identify the first holder of the scholarship.

Harold Weger, Chair, Oaks Board of Trustees

MESSAGE FROM THE CSPP EDUCATION DIRECTOR _____



In the last year we've seen the announcement and awarding of the first Ann Oaks Doctoral Scholarship and a formalizing of the Ragai Ibrahim Prize for best student paper.

The first holder of the Ann Oaks Doctoral Scholarship will be officially announced at the annual meeting in Ottawa.

In our second Ragai Ibrahim Prize competition, Sam Gennidakis of Bill Plaxton's group at Queen's University was awarded the honor. Sam's project concerned the characterization of a phosphoenolpyruvate carboxylase that has both bacterial- and plant-type polypeptides. His work was published in Plant J this past December (2007). (Gennidakis S, Rao S, Greenham K, Uhrig RG, O'Leary B, Snedden WA, Lu C, Plaxton WC. (2007) Bacterial- and plant-type phosphoenolpyruvate carboxylase polypeptides interact in the hetero-oligomeric Class-2 PEPC complex of developing castor oil seeds. Plant J. 52:839-49.

Greg Moorhead CSPP Education Director

NOTES FROM THE SOCIETY ARCHIVIST

RE: The CSPP archives

As should be well known to the membership, past records of the CSPP are kept in the society archives with the archives of NRCC in Ottawa. The record is not complete however. Several programs of past meetings are missing. The present note is a plea that you not just toss out old programs you no longer have a use for but to check to see whether the archives needs them! The following lists regional meetings for which the archives has no copies of the programs. Also in the past, it was customary for the Secretary too forward copies of programs to various librairies so any extra copies can be sent to these former recipients.

Western regional meetings missing programs:

1972 Saskatoon, 1975 Calgary,1990 Calgary, 2004 Saskatoon, 2007 Kelowna (down-loaded copy only, thanks to Harold Weger)

Eastern regional meetings missing programs:

1971 Ottawa, 1972 Windsor, 1977 Toronto, 1986 Toronto, 1989 London, 1998 Toronto, 2004 Queen's

The same applies to back copies of Newsletters/Bulletins. Copies during the early electronic age are especially in short supply. The Archives has no copy of issues published on the web in 2000 and 2001 and only one copy of that of material sent by e-mail in the 90's

Such items may be sent to: Connie Nozzolillo 306 Crestview Rd Ottawa Ontario K1H 5G6

SAVED FROM CYBERSPACE _

In the spirit of responding to the previous article, urging members so save their CSPP artifacts, Rob Guy contributed the following article, from the Nov 1995 Bulletin, that he had on his disk drive. It was written by an anonymous correspondent and comments on the state of research in Canadian plant physiology labs. Do you know the identity of Roopurt Murcock Junior?

Child Labour Makes a Return in Research

Researchers are creative and flexible so it is no surprise that they have found a novel way of dealing with the funding shortfalls that dog the modern lab. With even meager postdoc salaries beyond the means of the average grant, researchers have stopped hiring and started breeding!

If you doubt this you need only cast your eye around any impoverished university lab at night or on the weekends. Safely hidden from the prying eyes of the department of labour, whole families perform the real work of the lab out of hours. Of course flustered parents claim, when challenged, that they are simply keeping the kids busy and stimulated while their spouses earn real incomes but we are now starting to see the effects of mixing kinder and cloning.

Perhaps the best barometer is the advertising of the scientific suppliers. Well known pipette maker, "Gille's son", recognizing the smaller stature of the emerging research work force has added the "Petite Man" to its highly successful "Pipette Man" line. The Petite Man has a smaller grip cast in the shape of popular super hero dolls to help the kiddies enjoy their work. We have also seen new companies attracted to this market. Fisher Price has brought out a new all plastic "unbreakable" FPLC (Fisher-Price Liquid Chromatograph) to let the kiddies practice all important analytical techniques at home. "Labs-R-Us" new subsidiary of

a well known toy distributor has gone further than most in the marketing of small sized apparatus. Their "Masters of the Universe" microfuge brings a certain cache to the

lab and is now the leading brand. Similarly, "Spiderman glass wool" has leapt to the top of its category. The

company is also finding that their "Transformer" dolls can easily be disguised on invoices as electrophoresis equipment thus boosting sales. We expect soon to have the "O.J. PCR kits" with the "as seen in the movie" tag to push along sales.

Of course small size and agility is not always a handicap, especially for in-situ cleaning of such inconvenient places as the insides of fume hoods, fridges and centrifuges. Needless to say, all of this has its risks but anything is safer than letting the kids play on our gang infested streets. Perhaps the only thing to watch is that they should not confuse ethidium bromide solutions with raspberry cordial at break time.

One of the biggest difficulties in putting infants to work is being sure that the kids know what they are doing. After all, their lab books are likely to be less than illuminating when they only have the letters A, B and C at their disposal. To remedy this, we are trying to convince Sesame Street to introduce the letters P, C, R, D and N earlier in their schedule.

Many researchers lament that it is not as simple to prepare "kompetent kids" ("enfants competents" in Quebec) as it is to prepare "competent cells" - three washes in 10% glycerol followed by freezing. In my own lab we have tried to prepare competent students by washing them three times in ice cold 10% ethanol but they thought it was a frat party until we electroporated them in the hot tub (BioTechniques Jan. 1995). Alas, the results were disappointing. True the students were transformed but the washing made them, if anything, less competent. The bottom line is that we do not recommend this with your children no matter how badly they are cloning.

but to the children of scientists it will be welcome news as they, like the children of politicians, were for a long time a neglected brood. Now at least they see more of their parents, albeit blurred through safety glasses. Sociologists will also find it an interesting case for many had thought that the Dickensian age was behind us. Instead, lab conditions provide an excellent example of the result of interactions between diminishing resources and rampant competition - something akin farming in an earlier age. They will, however, be able to put a positive spin on it for now the status "married with children" will become an asset in job interviews. Roll out the change

To many outside science this report will come as a shock,

Roopurt Murcock Junior

tables!

POSITIONS _____

FOR RECENT POSTINGS, PLEASE SEE THE CSPP/SCPV WEBSITE AT http://cspp-scpv.ca/jobs-e.shtml

UPCOMING EVENTS __



4th International Plant Dormancy Symposium, June 8-11, 2009 - Holiday Inn Fargo, North Dakota USA. For detailed information go to

http://www.plantdormancy.com. This symposium is the fourth in a series following those in Oregon USA, 1995; in France, 1999; and in The Netherlands, 2004. Its goal is to bring together experts and stakeholders in a forum for exchange of information on dormancy in plants, development of collaborations, and sharing of ideas on plant dormancy mechanisms in vegetative buds, seeds, and other meristems from a variety of experimental plant systems ranging from agronomic, horticultural, and tree crops to model plants and weeds. Email contact info@plantdormancy.com. Co-chairs: Dr. Mike Foley

Photosynthesis in the Post-Genomic Era: Structure and Function of Photosystems

Pushcchino, Moscow Region Russia August 20-26, 2006 http://psmeeting.ibbp.psn.ru/

For additional events see http://www.cspp-scpv.ca/meetings-e.shtml

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CONTRIBUTORS

Roopurt Murcock Junior Anonymous

Note: We welcome your comments and suggestions for future publications of the CSPP/SCPV News Bulletin. Please forward all your written material to Line Lapointe (secretary@cspp-scpv.ca).