



BULLETIN

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EDITORS' FORUM:

The annual CBA/ABC meeting at the University of Windsor, June 10-14, was a great success. Many thanks to the hard work of the organizing committee, primarily Michael Wels, Jim Traquair, Susan Weaver and Lorna Woodrow and many, many others who worked tirelessly behind the scenes. This small, quiet, well organized meeting was certainly a contrast to the megalithic meeting last year in Toronto. Both the large and the small meetings have their advantages and disadvantages but I suspect that most of us enjoyed the change to a small meeting at Windsor where we had a chance to meet our colleagues, attend uninterrupted sessions and symposia and listen to a wide range of topics from chloroplast DNA to the flora of Ontario. A very special treat this year was the excellent student paper competition (Cinq-Mars) ...they just about stole the show. More detailed information about the meeting can be found in this issue of the Bulletin.

This is the first issue of the Bulletin that is printed on totally recycled, unbleached paper. We will continue to seek ways for the Bulletin to reflect the concern for the environment which is a key mandate of our association. Please let us know what you think about the new "recycled" look of the Bulletin.

Windsor, June 10-14, 1990

This year's meetings at Windsor were intimate, with just over 100 registrants. This meant that there were no concurrent sessions, a welcome relief from AIBS last year. For those of you who haven't been to the campus before, it is a very pleasant one, but it was a big surprise to me how intimately it is associated with the Ambassador Bridge. The traditional Sunday mixer was lavishly catered by Lorna Woodrow and the other members of the local organizing committee.

Monday morning's Wetlands Symposium was a well-crafted blend of the present and the past, and highlighted the importance of wetlands in the Great Lakes Region. On Monday evening Tom Booth gave the Weresub Lecture, "Swales and Zoospores". Besides being interesting and informative, it was, I suspect, unique in CBA/ABC history. He played to a captive audience, since the auditorium doors were inadvertently locked during the lecture. Iain Taylor's workshop on the processes our papers go through when submitted to the Canadian Journal of Botany was both entertaining and humbling, with lots of examples of the mistakes many of us make. I found the Flora of Ontario Symposium a very interesting one. Again, the combination of present day flora and past history helped put things into perspective. It was a perfect lead-in to the Wednesday field trips, organized by Tony Reznicek.

This year's presentations were varied, as usual. I always appreciate meetings like CBA/ABC in which one can find out a bit about research outside one's own field. The student presentations were notable again this year, because of their uniformly high standard. There was a unifying theme throughout the conference because the screen had a unique yellowing patch of masking tape just off centre, which gave all the slides a special look.

The banquet was a small one, but there was excellent food (including radishes carved as *Amanita* -- make of this what you will) and beautiful Flora of Ontario centrepieces done by Jim Traquair. The after dinner speaker, Bruce Graham, from the Ministry of Natural Resources in Aylmer, Ontario, gave a very encouraging talk about specific ways in which the ministry is attempting to consider ecological concepts and to employ ecologists in its programs.

Michael Weis, Lorna Woodrow, Jim Traquair

and Susan Weaver, as well as their many helpers worked very hard to make this such a successful meeting, and we thank them very much.

- Jean Gerrath

Windsor Awards

George Lawson Medal

This year's winner of the George Lawson Medal was **Dr. Robert J. Bandoni**, of the Department of Botany, University of British Columbia. He received the medal in recognition of his cumulative contributions in the field of mycology. The full citation will appear in the October *Bulletin*.

Mary Elliott Award

The winner of the Mary Elliott Award for service to CBA/ABC was **Taylor A. Steeves** of the University of Saskatchewan. His citation will also appear in the October *Bulletin*.

Lionel Cinq-Mars Award

Melissa Farquhar, of the Botany Department, University of Guelph, won the Cinq-Mars Award for the best student presentation. Her paper was entitled, "Early effects of the ectomycorrhizal fungus *Paxillus involutus* on the root rot organism *Fusarium oxysporum* associated with *Pinus resinosa*". This year the Cinq-Mars recipient was given a certificate, a plaque and a cheque for \$200.

John Macoun Travel Bursaries

This year's winners of the John Macoun Travel Bursaries were **Dean Nernberg** of the Department of Botany, University of Alberta, Edmonton, **Robert Wright** of the Department of Forest Science, University of Alberta, Edmonton, and **James Stewart**, also of the Department of Forest Science at Edmonton.



Meetings

Association of Zoological Horticulture Annual Meeting

The 10th Annual Conference of the Association of Zoological Horticulture will be held Oct.

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7-11, at the Riverbanks Zoological Park in Columbia, South Carolina, U.S.A. Pre- and Post-Conference Tours will be available. For information and registration, contact:

Jim Martin
c/o Riverbanks Zoological Park
P.O. Box 1060
Columbia, S. Carolina 29-209-1060
Phone: (803) 779-8717.

CBA/ABC Edmonton, 1991

This may seem a bit early to give a call for papers for the next annual meeting, but the reason behind this note is to have members give some consideration to contributions to a session suggested for the 1991 meeting in Edmonton.

Have you developed an original experiment or laboratory exercise that you would be willing to share with your colleagues?

One of the responsibilities of the General Section of the association is that of education. Many members teach at the post secondary level and some of you must have developed original or unusual laboratory exercises which are used only in your course. If you feel that your exercise may be of some use to other members then this may be the time and place to extend the range of your propaganda.

The proposal is to set up presentations somewhat between a poster session and a workshop. The session would be held in a laboratory with the equivalent of a student work place setting. If you are dealing with an experiment or exercise which requires standard laboratory supplies or portable equipment then this could be incorporated into the setup and a limited amount of "hands on" work could be done by passing participants. On the other hand if the experiment requires specialized or non-portable equipment then a poster presentation would seem appropriate.

The process would be essentially the same with both groups. Provide a handout comparable to that given out to students in the laboratory. Append a discussion of the ease/difficulty which the students have had using the experiment as well as the potential "glitches" which have occurred or can arise with the experiment.

At the moment this really is a fishing expedition to try to find out if there is any interest in this type of session. The lead time should permit photography during the fall or winter of

sessions which would be most easily presented as poster.

If you have comments either for or against this type of session, would you please drop me a note:

- Roger Lee, Biology Department, Memorial University of Newfoundland, St. John's, Nfld., A1B 3X9



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LETTERS TO THE EDITOR

Botany and the Public: Making People Aware

In late March, I represented the CBA/ABC at a workshop on "Communicating Science" sponsored by the Royal Society of Canada. A large number of scientific societies and groups were represented, and many of them presented poster displays or workshops on their efforts to explain their aspect of science to the public at large. After seeing these presentations, I was impressed by how much many scientific groups are doing, and by how little botanists are doing.

Besides offering a National Science Fair prize for the best project with a botanical theme, the Association has done very little to go out and encourage interest in botany. We do even less to explain the relevance of botany in daily life, and its importance to the future of Canadians.

From the comments made at the Royal Society conference, it became clear to me that we must do much more in the realm of raising public awareness of science, especially botany, if there is to be any hope of increased public support for botanical research and expertise in future years.

Obviously, not every botanist has the style and charisma of a David Suzuki. We can, however, help raise our collective profile in many ways. The Canadian Society of Zoologists (CSZ) has already committed \$3000 towards the implementation of a Public Awareness initiative through the CFBS, and is well on its way to making an impact. The CBA/ABC has been invited to participate in this project, and the Board is considering this option. Meanwhile, we can work individually and do a great deal. I will give a few suggestions below, but I would be extremely grateful if CBA/ABC members would write to me or the Bulletin editors with more ideas.

1. Most school boards have yearly "career days" in the primary or secondary schools, at which time people from various professions go to the schools and talk about what they do, why, and how to prepare for a career in that field. Call up your local school board and find out more about their program and how you can get involved in talking about careers in botany.

2. Encourage your academic departments or government laboratories to have an "open house" for one to several days at least once a year. Arrange for interesting talks, demonstrations, and other enticements to get the public to come. Let people see how plant pigments are studied, plants are identified and stored, electron microscopes are used, fungi are cultured and studied etc.

3. Approach local radio stations to see if you could be interviewed on some subject of interest to yourself that could (and should) be of interest to the listening audience. Most local interview shows are always looking for material, and it is not hard to get a spot. Talk about things like the relationship between natural areas and gardens, rare plants, an exciting expedition or conference you attended, pollution effects on plants or their physiology, pollination biology, the cause of autumn colours in leaves, the role of soil fungi in the health of a forest or field, the use of algae in monitoring water pollution, etc. The possibilities are endless.

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4. Arrange for workshops for high school teachers on their "professional development" days. It is astounding how little many high school teachers know about basic botany, and especially modern methods for botanical research. If you get these teachers enthusiastic, there is a much better chance that they will get their students enthusiastic.

5. Offer to speak to local natural history or garden clubs about your botanical interests. They are always looking for speakers, and they make a very receptive audience. Even the most ardent and experienced gardeners often know very little about basic plant biology, and most are very anxious to learn.

6. Write an article (or column!) for a local newspaper on the role of botanical research in solving environmental problems, finding new antibiotics, developing new horticultural varieties, finding disease-resistant food plants etc.; or something field-oriented, directing people to the best spots for seeing spring wild flowers, a relict pine forest or prairie remnant, a cliff with unusual ferns, etc.

7. Lead field trips to interesting botanical areas, not just for natural history societies, but for your camera club, Shakespeare discussion group, church group, etc. Link it to the annual picnic, and give everyone the chance to do something besides play volleyball.

I am sure that with a little thought, you will be able to come up with different and even better ideas. But we have to do more than think about it. . . we have to do something.

- Irwin M. Brodo, Past President

The 'Great Debate'

I have also been following the 'great debate' on the use of the word "Botany" by the Botanical Society of America. I agree with the editor of the CBA/ABC newsletter that this issue shows us one important thing: the BSA is alive and thriving. What about the CBA/ABC? I understand that our association is by no means as large as the BSA, but what are we doing as members to stimulate interest in the CBA/ABC? With the exception of a small group of dedicated individuals, our association seems to lack participation. I hope that I am wrong and that my nomination to the board of directors of the CBA/ABC will show me otherwise.

Dr. Christian Lacroix
Department of Biology, McGill University

POST-IT !

Enclosed in this issue of the Bulletin is a mini-poster for publicity for the CBA / ABC. Simply post your copy in your department. It doesn't matter if someone else has already posted his/hers. Find another spot. Now is your chance to contribute DIRECTLY to the promotion of YOUR association. Space is provided on the poster for you to write your name and room/ telephone number if you wish. The success of this project depends on you!

Christian Lacroix

AFFICHEZ-LE !

Dans ce numéro du bulletin vous trouverez un exemplaire d'un mini- "poster" à titre de publicité pour l'ABC / CBA. Vous n'avez qu'à afficher votre copie dans votre département. Peu importe si quelqu'un d'autre l'a déjà fait. Trouvez un autre endroit. C'est maintenant à votre tour de contribuer directement à la promotion de votre association. Un espace a été prévu sur le "poster" pour y inscrire votre nom ainsi que votre numéro de téléphone/bureau si vous le désirez. Le succès de ce projet dépend entièrement de vous!

Christian Lacroix

Botanical News

Mexican Tree Breeding Center Appeals for Help!

Dr. Hugh Dale recently received the following appeal, and has passed it on to the *Bulletin*. In the covering letter, Dr. Nienstaedt mentions that he has not been able to locate a single volume of the Canadian Journal of Botany, and only a few volumes of Genetics and Evolution.

On March 11, 1990, the main building of Centro de Genetica Forestal, A.C. was destroyed by fire. The building that housed offices, laboratories, the library, and computer facilities, was a total loss. The laboratory and all equipment, the herbarium, all office equipment, all files--scientific, as well as business--and the library of journals, textbooks and reprints were completely ruined.

Centro de Genetica Forestal A.C. was organized in the fall of 1985 as a joint effort of the

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Universities of Veracruz and of Capingo. Since then, the Center has developed cooperative tree improvement programs in eight key wood producing states and the Federal District of Mexico.

These programs include the development of seed zoning, establishment of seed production areas, the selection of superior trees and planting of seed orchards, and progeny testing. Research includes provenance tests, biosystematic studies, electrophoretic research, progeny tests, and studies of phenology and of wood characteristics. Under the aggressive leadership of Dr. Teobaldo Equiluz Piedra, the Center has made major advances towards the development of improved pine seed for Mexico's forests.

The fire is a major setback; a period of rebuilding faces us. **This is an appeal for help with the restoration of the library.** We need back issues of the following journals: Forest Science, Canadian Journal of Forest Research, Silvae Genetica, Canadian Journal of Botany, Plant Physiology, Ecology, and Journal of Forestry. For these journals, he had build up complete sets, or sets going back 20 to 30 years. We need recent, as well as, older textbooks in the field of genetics, tree genetics and tree improvement, tree physiology, plant propagation, silviculture - particularly of pine, statistics; proceedings of the tree breeding associations in the United States and Canada; manuals relating to pollination, seed handling, silviculture, analytic procedures, etc. Thousands of reprints were destroyed. We ask colleagues to send us sets of their reprints-- new and old-- in all fields related to genetic variation, tree genetics and tree improvement, tree physiology, etc.

Reprints and individual textbooks should be sent directly to:

Centro de Genetica Forestal, A.C.
Apartado Postal 104
Chapingo, Mex. C.P. 56230
MEXICO

If you can contribute volumes of journals, please write and indicate what journals and volumes you have available. Letters should be addressed to:

Dr. Hans Nienstaedt
c/o U. S. Forest Service
Forestry Sciences Laboratory
P.O. Box 898
Rhineland, WI 54501
U.S.A.

To avoid duplications, Dr. Nienstaedt will coordinate the collection of the journals. He will write you with further shipping instructions.

To a large extent, we built the library we had with the generosity of our friends and colleagues. He hope we can depend on your help once more.

ISI Upgrades Current Contents on Diskette

The Institute for Scientific Information has announced that it will release an upgraded version of its Current Contents on Diskette journal awareness system in mid-summer. The upgrade will incorporate several enhancements including Keywords Plus, a powerful new search feature offered exclusively by ISI.

Current Contents on Diskette is an information database for scientific researchers that provides weekly access to the latest contents listings from leading scientific journals. Users can electronically browse through the listings or develop customized search profiles to pinpoint items of particular interest.

The new Keywords Plus feature expands the product's searching capabilities beyond title words and author-assigned keywords, and will make it much easier for users to determine if an article is relevant.

For complete information about Current Contents on Diskette, call toll-free 1-800-336-4474 or write to the Institute for Scientific Information, Customer Services Department, 3501 Market Street, Philadelphia, PA 19104 U.S.A.



News of Members

Members will be interested to learn that **Jim Ritchie** will receive the William S. Cooper Award at the annual meeting of the Ecological Society of America, to be held later this month in Utah. This award is given annually in recognition of a recent contribution in geobotany or physiographic ecology. The award is being presented to Jim because of his outstanding recent book entitled "Postglacial Vegetative History of Canada".

The Department of Biology at the University of Waterloo is doing something tangible about

reaching out to the public. **Biologue**, a quarterly collection of articles and information on all aspects of biology, is directed especially to teachers. One of the Editors is **Joan Venn**, a long-time member of CBA/ABC. The Spring edition contains a very informative article by **Carol A. Peterson** of the University of Waterloo Biology Department, entitled "Freehand Sectioning and Staining Plant Material". For more information about this publication, contact: The Editors, **Biologue**, Department of Biology, University of Waterloo, Waterloo, ON N2L 3G1.

Along the same lines, our archivist, **Erich Haber**, has written and illustrated an interesting article on ginseng for Vol 10:1 of the National Museum of Canada publication **Blome**. In fact, I enjoyed reading the whole thing. Is it generally available?

We were all very saddened to hear about the untimely death of **Richard H. Eyde**, a curator in the Department of Botany at the Smithsonian Institution, who died on May 27 at age 61. Professor Eyde was a well known plant anatomist, a historian of botany and a popular and entertaining speaker. He was particularly well known for his work on the floral anatomy of the Cornaceae. His towering presence at botanical meetings and his easy going humor will be sorely missed.

A New Public Awareness Award

The Canadian Federation of Biological Societies (CFBS), with which the CBA/ABC is now affiliated, has recently established an annual award for members who have made outstanding contributions to making the general public aware of science and its importance: "The Gordon Kaplan Award".

The CFBS Task Force on the Public Awareness of Science is now accepting nominations for its 1990 award. The deadline is 15 August 1990. Nominations should include a citation giving details of why the Award should be made with appropriate documentation, a current CV of the nominee, and appropriate letters of support, including some from non-scientists.

The Award will be given for work in any medium, and can be for a single major contribution or for consistent high quality performance in the area of public awareness of science over a period of years. The nominees have to be mem-

bers of the CFBS, (i.e., a member of any affiliated society within CFBS, including the CBA/ABC), and the nomination has to be signed by three CFBS members. Details pertaining to the award can be obtained from the CBA/ABC President or Secretary, or by contacting the CFBS Task Force Chairman, Dr. M. Brock Fenton, Department of Biology, York University, 4700 Keele St., North York, Ont., M3J 1P3 (Phone: (416) 736-5243; FAX (416) 736-5698)



Book Reviews

Assessment of Crop Loss from Air Pollutants, Eds. W. W. Heck, O. C. Taylor, and D. T. Tingey. Elsevier Applied Science, N. Y. 1989. Price: \$144.

The National Crop Loss Assessment Network (NCLAN) completed its 5-year research program in 1985. The Research Management Committee (RMC) then held an International Conference on Assessment of Crop Loss from Air Pollutants as a means to present an overview of the results of the NCLAN program, and also to present a summary of current state-of-the-art science and an international perspective on the future in assessing the effects of air pollutants on crops.

The resulting book is divided into seven sections, structured to deal with specific issues. Within each section invited speakers contributed papers on the topics. Section I considers the need for crop loss assessment, current approaches and an overview of the NCLAN program. Section II examines the meteorology and atmospheric chemistry of air contaminants and their relationship to regional monitoring and extrapolation. The section also contains a discussion on ozone exposure indices. Section III contains discussion on the methodology for field approaches to crop loss assessment and Section IV examines the importance of crop loss assessment in physiological terms. Section V discusses the interaction of abiotic and biotic stress factors that may modify plant response to air contaminants while Section VI deals with statistical approaches utilized in crop loss assessment and model simulation. Finally, Section VII deals with the economic consequences of crop loss and the implication of crop loss assessment on policy making.

The book contains very detailed information on a wide range of issues dealing with crop loss due to air pollution. For the most part the in-

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formation is a summary of information that has been disseminated previously, either through publications or conferences. The chapters contain detailed figures and tables explaining basic concepts or the results of experimental study.

Research is never static, and direction always changing. Two sections I found particularly interesting were II and IV. Chapter 6, Section II deals with the issue of exposure indices. This discussion is ongoing today, and the results and conclusions will have an impact on the research we do in the future and how we interpret work that has been done. I think this Chapter provides a good framework for thought and deliberation on this important concept.

Section IV is of particular interest because a lot of the work in literature on ozone effects and assessment have characterized the response to a particular ozone exposure in a given environment. This section deals with the physiological effects of ozone, an area that will require a great deal of concentration in future research efforts. The discussion on pollutant flux into the leaf complements the discussion on exposure statistics particularly well.

Scientists researching the terrestrial effects of air pollutants will find this book particularly useful and interesting, as will those individuals involved in the assessment of the effects of air pollutants on crop loss and policy makers involved in setting standards.

- Norman S. Goodyear, Dept. of Horticultural Science, University of Guelph.



Books Received

A Checklist of the Flora of Ontario by J. K. Morton and Joan M. Venn

The checklist is the first published comprehensive inventory of the vascular plants of the Province of Ontario. It lists all the species, subspecies and named hybrids that are known to occur in the province, assigning each to its currently accepted scientific name. Synonyms are also included when they have appeared in the literature referring to Ontario collections or to the occurrence of a plant in the province. The list contains over 7000 entries relating to the 1930 native and 958 alien species that are recognized as occurring in the province growing out-

side of cultivation. References are given, where appropriate, to recent records and to justify many of the taxonomic and nomenclatural decisions contained in the checklist.

The checklist is available in two bindings - "perfect" bound with soft cover for library and bookshelf use and plastic ring bound for herbarium and desk-top use. The cost is \$20 + \$2 postage and handling. Cheques or money orders are payable to "University of Waterloo". Copies may be ordered from: Biology Series
Department of Biology
University of Waterloo
Waterloo, ON N2L 3G1



New Books

New Edition of Lichen Flora Now Available in French

"The Lichens of the Ottawa Region, Second Edition" by Irwin M. Brodo was published in English by the Ottawa Field-Naturalist's Club in December of 1988 (see the announcement in the Jan. 1989 issue of the *CBA Bulletin*). The Canadian Museum of Nature has now published a French translation of the book. It is available for the same price: \$9.95 + \$4.00 for shipping and handling. Orders should be sent to: Canadian Museum of Nature; Direct Mail (c/o Paula Gauthier); P. O. Box 3443, Station 'D'; Ottawa, Ont.; K1P 6P4.

The book provides illustrated keys for the identification of about 400 species of lichens, including the crustose species, for a 50 km radius of Ottawa, as well as introductory chapters on how to collect lichens and an illustrated glossary explaining technical terms. The treatment will "work" for almost all of southern Ontario, southwestern Quebec, and much of the non-mountainous northeastern U.S.

Nouvelle édition d'une flore lichénique est maintenant disponible

"The Lichens of the Ottawa Region, Second Edition" par Irwin M. Brodo a été publié par le Ottawa Field-Naturalist's Club en Décembre 1988 (voir l'annonce dans l'édition de janvier 1989 du *Bulletin* de l'ABC). Le Musée canadien de la nature a vient tout récemment de publier la version française de ce livre. Il est disponible

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au montant de \$9.95 +\$4.00 pour les frais de manutention. Les demandes d'achat doivent être envoyées au Musée canadien de la nature; a/s Paula Gauthier; C.P. 3443, Succursale 'D'; Ottawa, Ont.; K1P 6P4.

Le livre fournit des clefs illustrées pour l'identification d'environ 400 espèces de lichens, incluant des espèces crustacées, dans un rayon de 50 km d'Ottawa, de même que des chapitres sur la façon de récolter des lichens, et un glossaire illustré qui explique les termes techniques. Cette flore peut être utilisée sans problème pour presque toute la région du sud de l'Ontario, le sud-ouest du Québec et la plupart de la région non-montagneuse du nord-est des États-Unis.

"The Canadian Plant Sourcebook" by Anne and Peter Ashley. Cost \$13.00 + \$2.00 postage and handling.

This is book is designed to help gardeners find sources for plants. It lists over 10,000 plants, using botanical names. There are also indexes of French and English names of the plants. In addition it provides information on about 80 nurseries across the country (at least one nursery in each province) from where these plants can be purchased. Publication date was mid-June. Orders may be placed by writing to: Anne and Peter Ashley, 93 Fentiman Ave., Ottawa, Ont. K1S 0T7. Phone or FAX (613) 235-0755.



James Stewart of the Dept. of Forest Science, University of Alberta receiving his John Macoun Travel Bursary from President Irwin M. Brodo. Photo by U. Posluszny



Melissa Farquhar, of the Department of Botany, University of Guelph receiving the Lionel Cinq-Mars award for the best student paper from President-Elect Paul M. Catling. Photo by Erich Haber.



*The head table at the CBA/ABC banquet.
From left to right, Michael Weis, Vice-President and
local organizer, Lorna Woodrow, local organizer,
Sylvia Taylor, Secretary, and Irwin Brodo, President.
Photo by U. Posluszny.*

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THE LAST WORD: (Jean M. Gerrath)

During the period between our June meeting and the start of the fall teaching, most of us have a little time to reflect.

I hope that members will think about the points Ernie Brodo and Christian Lacroix raise in their letters of this issue. Let's all resolve to try to make botany more accessible to the public, and to raise the profile of CBA/ABC among our colleagues. I'm expecting to hear about all the new Ph.D. degrees granted over the summer.

NOTE: The deadline for the October issue is September 15.

The Bulletin of the Canadian Botanical Association:

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