



# NEWSLETTER

INTERNATIONAL SOCIETY OF CHEMICAL ECOLOGY

Vol. 11, No. 3, October, 1994

## XII ANNUAL MEETING

## October 2 - 6, 1995 LOS ANDES, CHILE

### PLACE:

The meeting will be held at the spa resort "Termas El Corazón", located in the Aconcagua valley, near the town of Los Andes, 90 min away from Santiago by road. It enjoys a dry microclimate with 300 sunny days per year and mild temperature changes between night and day. The resort has a spa pavillion with two hydromassage pools, spa tubs, a complete sauna next to a swimming pool and masseuse. In addition to the traditional tasty and well balanced food (or special diets), there are many recreation possibilities: swimming pools, two tennis courts, children's playground, horseback riding, reading room, indoor games, etc. There are also places for hiking and trekking.

### PROGRAM:

The program will consist of invited lectures, contributed papers and posters.

### INVITED SPEAKERS:

**John T. Arnason, University of Ottawa, Canada** - Adaptation of insect herbivores to life on phototoxic host plants

**Francisco Bozinovic, Universidad de Chile, Chile** - Chemical and digestive ecology of foraging in vertebrates

**Miguel A. Alonso, Universidad de Los Andes, Venezuela** - Chemistry in relation to phenology in two varieties of neotropical bracken fern

**Victor Eastop, The Natural History Museum, United Kingdom** - Aphids, plants and other organisms

**Frank Einhellig, University of South Dakota, USA** - Physiological actions of chemicals involved in allelopathy

**Helmut Van Emden, University of Reading, United Kingdom** - Plant chemistry and natural enemies of insects

**Pierre Escoubas, Sunbor, Japan** - Microscale bioassays and their application to the isolation of neuroactive compounds from arthropod venoms

**Dietland Müller-Schwarze, State University of New York, USA** - Chemical ecology of vertebrates and conservation of biodiversity

**Luz María Perez, Universidad de Chile, Chile** - The role of secondary metabolites and gene products in the hypersensitive response developed by higher plants upon fungal attack

**Jan Pettersson, Swedish University of Agricultural Sciences, Sweden** - Plants-aphids, odour communication and interaction

**John A. Pickett, Rothamsted Experimental Station, United Kingdom** - Exploiting chemical ecology in controlling sucking insect pests

**Glenn D. Prestwich, State University of New York** - Molecular receivers tailored to fit molecular signals: why is pheromone perception so specific?

**Yvan Rahbé, INRA, INSA-Lyon, France** - The Cucumis melo - Aphis gossypii model: biochemical and behavioural characterisation of aphid-plant interactions and their alteration by a resistance gene (vat) in melon

**Freddy Tjallingii, Wageningen Agricultural University, The Netherlands** - Stylet penetration of plants by aphids in a chemical context

**Alejandro Urzúa, Universidad de Santiago de Chile, Chile** - The role of aristolactams in the sequestration of aristolochic acids by Papilionidae

**Paul W. Wellings, CSIRO, Australia** - Insect-plant interactions in variable environments

**Michael Wink, University of Heidelberg, Germany** - Chemical defence of alkaloid producing plants

**Steve D. Wratten, Lincoln University, New Zealand** - Tri-trophic level interactions between the host-plant, the insect and predators

**Alicja Zobel, Trent University, Canada** - Histological localization of secondary metabolites in relation to their protective role for a plant

### SPECIAL LECTURE SERIES:

"Social interactions in scientific development"

**John A. Pickett, Rothamsted Experimental Station, UK** - From fossils to chemical ecology

(Continued on page 5)

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### From the Editor

There are 2 inserts in this issue - a pre-registration form for the 1995 meeting in Chile which should be returned to Hermann Niemeier and - your 1995 dues form which should be filled out and mailed with your check to Jim Nation or Martine Rowell-Rahier.

If you have suggestions for the "Silverstein-Simeone Plenary Lecture" nominee, please send them to either Jeremy McNeil or me.

Send your notices of good review articles, abstracts of book reviews, and member profiles to me for inclusion in the next newsletter. I need your help in gathering this information.

- John Romeo



## ISCE BUSINESS MEETING MINUTES

### Syracuse, NY - June 8, 1994

*Submitted by Jim Nation*

Present: President William Fenical, Treasurer Jim Nation, President Elect Jeremy McNeil, Editors John Simeone & Milt Silverstein, and about 25 members. Absent: Secretary John Romeo

President, William Fenical called the meeting to order immediately following the last paper session of the morning. He recognized and thanked John Simeone and Milt Silverstein for the outstanding work they have done over the past 20 years in starting and editing the Journal of Chemical Ecology. He asked John Simeone to comment on the status of the Journal. John reported that the Journal is strong. About 80-85% of submitted papers are eventually accepted and printed. Some growth is still occurring. About 300 manuscripts per year could be published without lengthening the time from receipt to publication.

Jim Nation, Treasurer reported on the finances of the Society. The Society is strong financially, but we did not raise much money from gifts and grants in 1994. A copy of the financial report was passed out to members. Current assets are about \$103,000. Jim said because of new responsibilities as co-editor of JCE, he will not continue as treasurer beyond this year. Someone will need to be elected in spring 1995. He asked those interested in the position to let it be known to one of the Society officers.

Bill Fenical announced that the 1995 meeting would be Oct 2-6, in Chile, and that the 1996 meeting would be in Prague, Czech Republic. Hermann Niemeyer, who is organizing the Chile meeting, reported that the meeting would take place at a thermal resort village about 100Km north of Santiago. About 150 people can be accommodated in the facility, and if more accommodations are needed, there are hotels nearby. The weather should be good during this season. The meeting will have a strong emphasis on plant/insect interactions. He is planning some optional tours which can include a birdwatching expedition and a visit to a national park.

*"...The Society is strong financially, but we did not raise much money from gifts and grants in 1994."*

year could be beneficial to the Society. He did not ask for action on this item, but simply chose to present the idea as something for the members and EC to consider. There was some pro and con discussion.

Bill also raised the perennial problem of Society fund-raising. He presented some of his ideas and articulated the need for a written history of the fund-raising committee activity. He and Jeremy McNeil are the current chairmen of this committee and solicit member ideas and support. Lincoln Brower suggested a dialogue in the newsletter as a possibility.

Finally, Bill thanked Fran Webster, John Simeone and Milt Silverstein for their fine organization of the meeting, and introduced Jeremy McNeil as the new President. John Pickett was announced as the new Vice President (incoming President elect).

Jeremy McNeil reiterated Bill's thanks to the organizer and members for contributing to a successful meeting, and then adjourned the meeting.

New Business: President Fenical raised the idea of extending the term of President of the Society to 2 years. He said it took him a long time to get fully into the business of the ISCE, and that serving for more than one

## STUDENT TRAVEL AWARD WINNERS

Eight student members of ISCE were honored with travel awards (totaling \$4,700) to present their work at the Syracuse meeting. We congratulate these students and thank them for their contributions. The winners and titles of their presentations are:

**Susanne Dobler, Zoologisches Institut, Universität Basel, SWITZERLAND**

"Fast growth versus superior defense: evidence for a trade-off in the leaf beetle *Oreina elongata*"

**Herbert Eichenseer, Pesticide Research Laboratory, Pennsylvania State University, USA**

"Comparative antifeedancy of GABA/glycineric antagonists to Diabroticite beetles"

**Caroline Liepert, Lehrstuhl Tierökologie II, Universität Bayreuth, GERMANY**

"Chemical camouflage in an aphid-ant-parasitoid system"

**Brice McPherson, Department of Entomology, University of California, Berkeley, USA**

"Phagostimulants isolated from fungi associated with the western subterranean termite, *Reticulitermes hesperus* Banks L."

**Yoshitsugu Ohara, Pesticide Research Institute, Faculty of Agriculture, Kyoto University, JAPAN**

"Oviposition stimulants in the cuticular wax of the common armyworm, *Pseudaletia separata*, toward the Braconid wasp, *Cotesia kariyai*"

**Glen Powell, Imperial College, University of London, UNITED KINGDOM**

"Aphid-repellent effects of polygodial, a plant sesquiterpenoid"

**Johannes Steidle, Lehrstuhl Tierökologie II, Universität Bayreuth, GERMANY**

"The adaptation of the defensive secretion of *Bledius* (Col., Staph., Oxy.) to natural predators"

**Farid Talukder, Department of Biology, University of Southampton, UNITED KINGDOM**

"Effect of *Aphanamixis polystachya* on insects and fungal pests of stored-products"

The ISCE will make awards available for student travel to the 1995 meeting in Chile. Details regarding the application for these grants will be published in the February Newsletter





# Syracuse Reflections

The discipline of Chemical Ecology began in Syracuse in 1968 with a series of lectures on the SUNY College of Forestry Syracuse University Campus. The publication in 1970 of *Chemical Ecology*, edited by Sondheimer and Simeone, marked the formal beginning of our discipline. It seemed fitting that we



*Presidents Fenical and McNeil*

should gather in Syracuse a quarter century later to mark the retirements of Drs. Simeone and Silverstein. These two pioneers with their foresight, persistence, gentle persuasion, and human spirit have touched the lives, both professionally and personally of most of the ISCE membership. Clearly, this thought was not far from anyone's mind as meeting participants were stimulated by talks on such exciting new developments as: the use of molecular biological techniques for receptor-based screening of natural products for activity (Anderson, Fernandes); a "switch" to searching the ocean's invertebrates and algae for new drugs (Thompson); the application of interspecific chemical recognition to solving the parasitic problem of *Striga*, affecting grain production throughout the world (Butler); and the rediscovery that systematic based predictions can save a lot of time (Mole).

Some 170 people, representing 21 countries and 6 continents, listened to 31 symposium talks, presented 51 contributed papers, and discussed 36 poster presentations. The weather was continually good from the Saturday welcome barbecue on the ESF Quad to the Thursday Finger Lakes Wine Country Tour. As usual, most of the best discussions took place outside of the lecture halls for interdisciplinary science at its best.

The banquet served as the milieu for honoring John Simeone and Milt Silverstein with tributes from President Bill Fenical, Incoming President Jeremy McNeil, and Past, Past President Gunnar Bergstrom. They were presented with a copy of the Meeting Proceedings and made Honorary Members of the Society. A standing ovation greeted Milt and John, their wives and their loyal secretary Eleanor Zaccaria on stage to accept their awards. With accustomed grace and humility they thanked to Society for the privilege of serving. Everyone was touched by the moment.



*Cornell Musicians*



*The Silversteins, Eleanor Zaccaria, and the Simeones receive accolades from Past President Bergstrom*

tickets, while Steven Cork and John Romeo were invited in. - In a quieter musical vein, Jerrold Meinwald and Tom Eisner provided pre-banquet entertainment while Eloy Rodriguez watched and contemplated learning a new instrument. - While a number of papers focused on New York State personalities (maples, beavers, gypsy moths, Zucchini), there were none on grapes. Many, however, experimented and documented that New York State wines have gotten quite good. - Fran Webster, our tireless and gracious host, demonstrated that stamina is the key to running a successful meeting. - Some fascinating new words were added to our vocabularies - "disparlure", "tansy", regioselectivity" and "mush" to name a few. - And, Hermann Niemeyer received the "What, me worry?" recognition award from the ISCE Executive Committee for his 1994 activities. He promises good grapes and their products when we all visit him next year!

## UPCOMING MEETINGS

**Segundo Simposio Internacional de Quimica de Productos Naturales y Sus Aplicaciones.** Concepción, Chile. 30 November-2 December, 1994. Contact: Prof. Mario Silva, Depto. de Botánica, Fac. Ciencias Naturales y Oceanográficas, Universidad de Concepción, Casilla 2407-Apartado 10, Concepción, Chile.

**Keystone symposium - Plant Cell Biology: Mechanisms, Molecular Machinery, Signals, and Pathways.** Taos, New Mexico, USA. 7-13 January, 1995. Contact: Natasha Raikhel, Michigan State University.

**Application of Chromatographic Methods in Phytochemical and Biomedical Investigations.** Lublin, Poland. 23-34 June, 1995. in conjunction with a 3 day **Medicinal Plants & Drugs Market Exhibition.** Contact: Prof. Dr. Kazimierz Glowinski, Dept. Pharmacognosy of Medical Academy, Peowiakow 12 Str., 20-007 Lublin, Poland. Telephone: 048-081-233-14.

**9th International Symposium on Insect-Plant Relationships.** Gwatt, Switzerland. 24-30 June, 1995. Contact: Erich Städler, Eidg. Forschungsanstalt, Schloss 334, CH-8820 Wädenswil, Switzerland. e-mail: STAEDLER@FAW.ETHZ.CH; Telephone: 41 1 783 6334; FAC 41 1 783 6434.

**Phytochemical Society of North America.** Sault Ste. Marie, Ontario, Canada. 12-16 August, 1995. **Phytochemical Redundancy in Ecological Interactions.** Contact: Mandouh Abou-Zaid, Forest Pest Management Institute, 1219 Queen St. East, Sault Ste. Marie, ONT Canada, P6A 5M7. Telephone: 705-949-9461; FAX: 705-759-5700.

**Phytochemistry of Fruits and Vegetables.** Murcia, Spain. September, 1995. Contact: Dr. F.A. Tomas-Barberan, CSIC, Centro de Edafologia y Biologia Aplicada del Segura, Apartado 4195, Murcia 30080, Spain.

**Principles Regulating the Biosynthesis and Storage of Secondary Metabolites.** Halle, Germany, October/September, 1996. Contact: Prof. B. Dietrich, Institut für Pharmazeutische Biologie, Martin-Luther-Universität, Weinbergweg 15, PSF 8, D-06120, Halle, Germany.



## TREASURER'S NEWS AND NOTES

A new membership directory will be prepared in the spring of 1995 for distribution prior to the annual meeting. Please be sure to fill out completely and return the membership data form included in this issue of the newsletter. Especially, if you are a Life Member, I would like to hear from you. My records on Life Members are not complete with respect to current telephone numbers, e-mail addresses, and keywords indicating professional interests.

The Society has not asked persons who fall behind in payment of dues to catch up - merely to pay the current year's dues. I hope many who have let dues lapse will rejoin the Society, send in the membership update form, and enable us to list a record-breaking membership in the new directory. Please note on your address label that the date by your name indicates that your dues are (or were) paid through December of the year listed.

I am currently starting my ninth year as Treasurer of the Society. It has been a very enjoyable experience, enabling me to communicate by mail, e-mail, and through personal contacts with many members over the years. I have had the very able, and much appreciated, assistance of Martine Rowell-Rahier in Switzerland, who has collected European dues. I would do it all over again without hesitation, but as co-editor with David Jones of the Journal of Chemical Ecology, I find I have to channel my energies and time.

Thus, the Society needs to elect a new Treasurer in the spring of 1995.

The Treasurer is elected for a 3-year term. The job really is not difficult nor excessively demanding of time. The Treasurer receives the membership dues and data updates from members, keeps the records and money, and maintains the membership records in a database file. Presently I also print the labels for the newsletter. The database program I use can be transferred as an ASCII file (text file), in WordPerfect format

for someone to transfer the data. I will have the membership file up to date in the late spring, because that will be the source for the Directory, which I will produce, as authorized by the Society at the annual meeting in Syracuse. I will, of course, assist the new Treasurer in any way possible in getting started. Anyone who has an interest in serving the Society in this way, should give their name to any member of the Executive Committee.

Many thanks to all members for your help, and best wishes for the coming year.

Jim Nation

## INTERNATIONAL SOCIETY OF CHEMICAL ECOLOGY, INC.

### DATA FOR FORM 990-1993

#### PART I:

#### SUPPORT AND REVENUE

##### 1 CONTRIBUTIONS, GIFTS, GRANT

a direct public support	\$16,473.00
b indirect public support	\$0.00
c gov. grants	\$8,500.00
d total (attach schedule)	\$24,973.00
2 PROGRAM SERVICE REVENUE	\$20,438.98
3 MEMBERSHIP DUES	\$10,483.00
4 INTEREST EARNED	\$2,789.00
5 DIV. AND INTEREST FROM SECURITIES	\$0.00
6 GROSS RENTS	\$0.00
7 OTHER INVESTMENT INCOME	\$0.00
8	
9 special events (not including \$ )	
of contrib. on line 1a) 9a	\$0.00
less expenses 9b	\$0.00
11 OTHER REVENUE	\$0.00
12 TOTAL REVENUE	\$58,683.98

#### EXPENSES

13 PROGRAM SERVICES	\$46,084.25
14 MANAGEMENT AND GENERAL	\$244.84
15 FUNDRAISING	\$0.00
16 PAYMENTS TO AFFILIATES	\$0.00
17 TOTAL EXPENSES	\$46,329.09

#### FUND BALANCE

18 EXCESS (DEF) FOR THE YEAR	\$12,354.89
19 FUND BAL. OR NET WOR. AT BEG. OF YR.	\$91,437.53
20 OTHER CHANGES IN NET WORTH	\$0.00
21 FUND BAL. OR NET WORTH END OF YR	\$103,792.42

#### PART II:

##### STATEMENT OF FUNCTIONAL EXPENSES

	(A)TOTAL
22 GRANTS AND ALLOCATIONS (attachment)	\$20,693.37
23 SPECIFIC ASSISTANCE TO INDIVIDUALS	\$0.00
24 BENEFITS PAID TO OR FOR INDIVIDUALS	\$0.00
25 COMPENSATION OF OFFICERS	\$0.00
26 OTHER SALARIES AND WAGES	\$0.00
27 PENSION PLAN CONTRIBUTIONS	\$0.00
28 OTHER EMPLOYEE BENEFITS	\$0.00
29 PAYROLL TAXES	\$0.00
30 FUNDRAISING FEES	\$0.00
31 ACCOUNTING FEES	\$0.00
32 LEGAL FEES	\$0.00
33 SUPPLIES	\$45.57
34 TELEPHONE	\$0.00
35 POSTAGE AND SHIPPING	\$1,994.06
36 OCCUPANCY	\$0.00
37 EQUIPMENT AND MAINTENANCE	\$0.00
38 PRINTING AND PUBLICATIONS	\$5,167.95
39 TRAVEL	\$0.00
40 CONFERENCES, CONVENTIONS, MEETINGS	\$13,056.89
41 INTEREST	\$0.00
42 DEPRECIATION	\$0.00
43 OTHER EXPENSES (ITEMIZE)	
FILING FEE	\$4.00
BANK CHARGES	\$25.00
JCE SUBS FOR MEMBERS	\$5,235.00
WIRE FEES	\$107.25
44 TOTAL EXPENSES	\$46,329.09

#### 93 program service revenue

(a) Annual meeting reg. fees	\$14,267.98
(b) member subs. to Jour. Chem. Ecol.	\$5,235.00
(c) souvenir of annual meeting	\$936.00



## MESSAGE FROM THE PRESIDENT

The 1994 annual meeting in Syracuse was a rather historic moment for it was on the home turf of Professors Milt Silverstein and John Simeone, who have unfailingly served the International Society of Chemical Ecology for many years. At this time the ISCE recognized their many contributions by awarding them Honorary Membership in the Society. Unquestionably their most evident contribution has been their work as editors of the Journal of Chemical Ecology, which, under their stewardship, has evolved into a major international journal. In the May 1994 ISCE Newsletter Milt and John announced their retirement as editors, with this responsibility falling into the able hands of Jim Nation and David Jones.

Several years ago, in recognition of their editorial contributions, the Executive Committee and Councilors proposed a Silverstein-Simeone Award to be given each year for the best paper published in the Journal. This idea, however, never saw the light of day, as the diversity of subjects treated in the Journal made such a choice impossible. Milt and John, in particular, were uncomfortable with this concept.

Just saying "thank you for the editing" seemed a rather terse way of recognizing such a long association, so last year Plenum Press was contacted and asked to sponsor a "Silverstein-Simeone Plenary Lecture" at the ISCE annual meetings. A committee would select a speaker to give a state of the art lecture in their particular field of expertise. This would subsequently be published in the Journal of Chemical Ecology. At the meeting in Syracuse I was pleased to announce Plenum Press had accepted the proposal to sponsor the "Silverstein-Simeone Plenary Lecture" for a period of three years, starting at the 1995 meeting in Chile. Plenum has requested an annual report on the lecture and its reception by the membership, and these will be used in their consideration of sponsorship beyond 1997.

It is the Executive Committee's intent that this Plenary Lecture be both a means of honoring a colleague for current innovations in chemical ecology and honoring the enormous past contributions of Milt and John. I would therefore encourage you to submit the names of scientists whose contributions you believe qualify them for such an honor. Nominations, for consideration by the awards committee, should be sent to either John Romeo or myself no later than January 15th, 1995.

Jeremy McNeil

## The Silverstein-Simeone Plenary Lecture



*(Chile continued from page 1)*

### DATES:

**Monday, October 2:**

Registration, ISCE council meeting, evening mixer

**Wednesday, October 4:**

Excursion to "La Campana" National Park

**Friday, October 6:**

Closing ceremony, banquet

### COST ESTIMATION:

Registration (including admission to scientific and social events):

Members	US\$ 140
Non members	170
Student members	50
Student non members	70
Accompanying person	30

Accommodation with full board (based on double occupancy):  
US\$ 500 for five days per person.

### FOR ACCOMPANYING PERSONS:

A program which may include city tours to Santiago, to Viña del Mar-Valparaíso and to the ski resort Portillo, on the high Andes, may be organized.

### POST-MEETING TOURS:

If sufficient interest arises, tours may be organized to visit the Altiplano region in the far north, the Volcanoes and Lakes region in the south, and the Pampa and Glacier region in the far south.

### SECOND CIRCULAR:

This information will be sent out in May 1995 and will contain (1) the program outline, (2) a final registration form, (3) information about the submission of paper and poster abstracts, and (4) information on tours, if sufficient interest shows up in the pre-registration form. It will be sent only to persons returning the enclosed Pre-registration Form.



## EISNER HONORED

**Thomas Eisner**, ISCE Life Member, and Jacob Gould Schurman Professor of Biology at Cornell University was one of 2 natural scientists selected to receive the National Medal of Science - the United States' highest scientific honor. The eight 1994 medal winners were named at a news conference held on September 8 at the National Press Club in Washington, D.C.. Eisner, an ardent conservationist, is a chemical ecology pioneer who introduced the concept of chemical prospecting at the 1989 ISCE annual meeting in Gothenburg, Sweden.



### ANNOUNCEMENTS

The Department of Entomology, University of California, Riverside, is recruiting for a tenured position in entomology to fill the Alfred M. Boyce Endowed Chair in Entomology, at the rank of Professor/Entomologist, salary commensurate with experience. Position is 11 months with 75% research, 25% teaching, available July 1, 1995.

**Contact:** Mir S. Mulla, Chair, Search Committee, Department of Entomology, University of California, Riverside, CA 92521. Deadline January 16, 1995.

### NEW COUNCILORS

President Jeremy McNeil has appointed 5 new councilors to serve 3 year terms from 1994-1997. The five are: **Monika Hilker**, University Bayreuth, Germany; **Ana Luisa Anaya**, UNAM, Mexico; **Jean-Luc Clément**, CNRS-UPR, France; **Frank Einhellig**, Southwest Missouri State University, USA; and **William Fenical**, Scripps Institute of Oceanography, USA.

The ISCE Councilors act in an advisory capacity to the Executive Committee in formulating policy. They are selected to represent various fields of chemical ecology. The new councilors replace outgoing councilors Gerald Rosenthal, Louis Schoonhoven, Thomas Hartmann, Tatsuji Chuman, and David Seigler who were recognized with certificates of appreciation for their services at the Banquet in Syracuse.



*The Torch Is Passed - Jim Nation, David Jones, Eleanor Zaccaria, Milt Silverstein, John Simeone*

## REVIEW ARTICLES AND BOOK REVIEWS

The Executive Committee and Councilors discussed gathering lists of good review articles in various subdisciplines for publication in the Newsletter. The intent is simply to inform the membership about useful references. Since we all read different journals, something well-known to you may have gone undetected by one of your chemical ecology colleagues. We would like you to send these references to the Secretary who will include them in future newsletters.

In the same spirit, most of us are interested in brief synopses of new books in the various fields of Chemical Ecology. If you come across an abstract or review of a new book which interests you, please share it with the rest of us. There is almost always room for this information in any issue of the Newsletter.

We would like to make your Newsletter more useful for you. Take a few minutes and send this kind of information to the Secretary.

### NEW BOOKS

***Analysis of Phenolic Plant Metabolites*** by Peter G. Waterman and Simon Mole. Methods in Ecology Series. 1994. Blackwell Scientific Publications, Cambridge, MA, USA. 238 pages, 39 illus., paper, \$35.00.

A non-technical introduction to the chemistry of phenolic compounds and a practical guide to their analysis. The book adopts a biological perspective and uses numerous diagrams to help understand complex chemical structures. It outlines the different classes of phenolic compounds, their structural diversity, distribution and gives examples of their ecological significance. It focuses on specific methods used to qualify, quantify, isolate, and identify phenolics, including detailed methods for both chemical and biochemical assays. The book targets ecologists and biologists working in the areas of plant ecology, physiology, biochemistry, or genetics.

***Polyphenolic Phenomena*** edited by Augustin Scalbert. Science Update Series, 1993. INRA Publications, Versailles, France. 296 pages, FF 150. Published for the 20th Anniversary of the "Groupe Polyphenols".

Presents short papers on some of the most intensively studied topics related to plant polyphenols. Written by leading scientists in their specialty with each chapter describing the main research achievements of the last two decades. Includes some of the essential bibliography of this period.

Divided into 5 parts: chemistry; biosynthesis and biodegradation; biological properties; polyphenols in food, beverages and wood; and applications of polyphenols. Book is abundantly illustrated and offers an overview to research workers in plant chemistry, ecology, and pharmacology.



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