

Radiocarbon

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Kline Geology Laboratory

Yale University

New Haven, Connecticut 06511

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ELEVENTH INTERNATIONAL RADIOCARBON CONFERENCE

June 20-26, 1982

Seattle, Washington, USA

The Eleventh International Radiocarbon Conference will be held from June 20 to 26, 1982 on the campus of the University of Washington in Seattle.

PROGRAM

The scientific program includes the following topics:

¹⁴C and archaeology

Mass spectrometric dating with accelerators and enrichment of ¹⁴C samples. We invite also the discussion of other radioisotopes

Natural ¹⁴C variations, with special consideration of the influence of climate change on past atmospheric ¹⁴C and CO₂ levels

General technique

The influence of man on ¹⁴C levels in our environment

¹⁴C and overlapping dating methods

Special topics: to be announced

PAPERS

Acceptance of papers will be decided on the basis of extended summaries (about 2 pages). Depending on the number of papers accepted, parallel sessions and/or poster sessions may be scheduled. Apart from the paper presentations one or more working sessions may be planned during the conference. The conference proceedings will be published in RADIOCARBON.

AMQUA

A meeting of AMQUA, the American Quaternary Association, has been scheduled in Seattle following the Radiocarbon Conference (June 28-30). It may be possible to take part in the AMQUA preconference field trips on June 26 and 27.

Write for more information to:

Quaternary Isotope Laboratory, AK-60
University of Washington
Seattle, Washington 98195

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EDITORIAL STATEMENT TO CONTRIBUTORS

Since its inception, the basic purpose of Radiocarbon has been the publication of compilations of ^{14}C dates produced by various laboratories. These lists are extremely useful for the dissemination of basic ^{14}C information.

In recent years, Radiocarbon has also been publishing technical and interpretative articles on all aspects of ^{14}C . The editors and readers agree that this expansion is broadening the scope of the Journal. Last year, the editors published the Proceedings of the Tenth International Radiocarbon Conference that was held at Bern and Heidelberg, August 19-26, 1979. Volume 22, Nos. 2 and 3, 1980 contained these proceedings. Volume 23, 1981 now returns to its usual format of three numbers per volume.

As a result of publishing the proceedings, another section is added to our regular issues, "Notes and Comments". Authors are invited to extend discussions or raise pertinent questions to the results of scientific investigations that have appeared on our pages. The section will include short, technical notes to relay information concerning innovative sample preparation procedures. Laboratories may also seek assistance in technical aspects of radiocarbon dating.

All correspondence, manuscripts and orders should be sent to the Managing Editor, Radiocarbon, Kline Geology Laboratory, Yale University, 210 Whitney Ave, PO Box 6666, New Haven, Connecticut 06511.

The Editors

NOTICE TO READERS

Half life of ^{14}C . In accordance with the decision of the Fifth Radiocarbon Dating Conference, Cambridge, 1962, all dates published in this volume (as in previous volumes) are based on the Libby value, 5730 ± 30 yr, for the half life. This decision was reaffirmed at the 9th International Conference on Radiocarbon Dating, Los Angeles/La Jolla, 1976. Because of various uncertainties, when ^{14}C measurements are expressed as dates in years BP the accuracy of the dates is limited, and refinements that take some but not all uncertainties into account may be misleading. The mean of three recent determinations of the half life, 5730 ± 40 yr, (*Nature*, v 195, no. 4845, p 984, 1962), is regarded as the best value presently available. Published dates in years BP, can be converted to this basis by multiplying them by 1.03.

AD/BC Dates. In accordance with the decision of the Ninth International Radiocarbon Conference, Los Angeles and San Diego, 1976, the designation of AD/BC, obtained by subtracting AD 1950 from conventional BP determinations is discontinued in Radiocarbon.

Authors or submitters may include calendar estimates as a comment, and report these estimates as AD/BC, citing the specific calibration curve used to obtain the estimate. **Meaning of $\delta^{14}\text{C}$.** In Volume 3, 1961, we endorsed the notation Δ (Lamont VIII, 1961) for geochemical measurements of ^{14}C activity, corrected for isotopic fractionation in samples and in the NBS oxalic-acid standard. The value of $\delta^{14}\text{C}$ that entered the calculation of Δ was defined by reference to Lamont VI, 1959, and was corrected for age. This fact has been lost sight of, by editors as well as by authors, and recent papers have used $\delta^{14}\text{C}$ as the observed deviation from the standard. At the New Zealand Radiocarbon Dating Conference it was recommended to use $\delta^{14}\text{C}$ only for age-corrected samples. Without an age correction, the value should then be reported as percent of modern relative to 0.95 NBS oxalic acid. (Proceedings 8th Conference on Radiocarbon Dating, Wellington, New Zealand, 1972). The Ninth International Radiocarbon Conference, Los Angeles and San Diego, 1976, recommended that the reference standard, 0.95 times NBS oxalic acid activity, be normalized to $\delta^{13}\text{C} = -19\text{‰}$.

In several fields, however, age corrections are not possible. $\delta^{14}\text{C}$ and Δ , uncorrected for age, have been used extensively in oceanography, and are an integral part of models and theories. For the present, therefore, we continue the editorial policy of using Δ notations for samples not corrected for age.

Citations. A number of radiocarbon dates appear in publications without laboratory citation or reference to published date lists. We ask that laboratories remind submitters and users of radiocarbon dates to include proper citation (laboratory number and date-list citation) in all publications in which radiocarbon dates appear.

Radiocarbon Measurements: Comprehensive Index, 1950-1965. This index, covering all published ^{14}C measurements through Volume 7 of RADIOCARBON, and incorporating revisions made by all laboratories has been published. It is available to all subscribers to RADIOCARBON at \$20.00 US per copy.

Publication schedule. Beginning with Volume 15, RADIOCARBON has been published in three issues: Winter, Spring, and Summer. Contributors who meet our deadlines will be given priority but publication is not guaranteed in the following issue.

List of laboratories. The comprehensive list of laboratories at the end of each volume appears in the third number of each volume. Changes in names or addresses should be reported to the Managing Editor by May 1.

Index. All dates appear in index form at the end of the third number of each volume. Starting with Volume 22, RADIOCARBON published a new type of index, organized in chronologic order, according to sample type and by geographic distribution. Authors of date lists are requested to prepare index tables following the format shown in volume 22, no. 4, 1980 and volume 23, no. 3, 1981. The editors of RADIOCARBON believe that this practice serves a more useful function. Our readers are encouraged to make further suggestions.

RADIOCARBON

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Managing Editor: RENEE S KRA

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Subscription rate \$60.00 (for institutions), \$40.00 (for individuals), available only in whole volumes. The Proceedings of the Tenth International Radiocarbon Conference, vol 22, nos. 2 and 3, are available for \$60.00. The price of the full volume 22, nos. 1-4, is \$60.00 for individuals and \$80.00 for institutions.

All correspondence and manuscripts should be addressed to the Managing Editor, RADIOCARBON, Kline Geology Laboratory, Yale University, 210 Whitney Ave, PO Box 6666, New Haven, Connecticut 06511.

INSTRUCTIONS TO CONTRIBUTORS

Manuscripts of radiocarbon papers should follow the recommendations in *Suggestions to Authors*, 5th ed.* All copy (including the bibliography) must be typewritten in double space. Our deadline schedule is:

<i>For</i>	<i>Date</i>
Vol 24, No. 2, 1982	Jan. 1, 1982
Vol 24, No. 3, 1982	May 1, 1982
Vol 25, No. 1, 1983	Sept. 1, 1982

General or technical articles should follow the recommendations above and the editorial style of the *American Journal of Science* or the Proceedings of the Tenth International Radiocarbon Conference. Date lists should follow the format shown in the most recent issue of RADIOCARBON. More detailed instructions are available upon request. Separate mailings have been discontinued.

Illustrations should include explanation of symbols used. Copy that cannot be reproduced cannot be accepted; it should be capable of reduction to not more than 10 by 17.5, all lettering being at least 1/16 inch high after reduction. When necessary, one large map or table can be accepted, if it will not exceed 17.5 inches in width after reduction. Line drawings should be in black India ink on white drawing board, tracing cloth, or coordinate paper printed in blue and should be accompanied by clear ozalids or reduced photographs for use by the reviewers. Photographs should be positive prints. Photostatic and typewritten material cannot be accepted as copy for illustrations. *Plates* (photographs) and *figures* (line drawings) should each be numbered consecutively through each article, using arabic numerals. If two photographs form one plate, they are figures A and B of that plate. All measurements should be given in SI (metric units).

Reprints. Thirty separate copies of each article will be furnished to the author free of cost and without previous notice from him; these will be without a cover. The cost of additional copies will, of course, be greater if the article is accompanied by plates involving unusual expense. Copies will be furnished with a printed cover giving the title, author, volume, page, and year, when specially ordered.

Page charges. Each institution sponsoring research reported in a technical paper, not a date list, will be asked to pay a charge of \$80.00 per printed page, due when galley proof is returned. Institutions or authors paying such charges will be entitled to 100 free reprints without covers (over and above the 30 free reprints furnished the author.) No charge will be made if the author indicates that his institution is unable to pay them, and payment of page charges on an article will *not* in any case be a condition for its acceptance.

Back issues and price lists may be obtained from the office of RADIOCARBON.

* *Suggestions to authors of the reports of the United States Geological Survey*, 5th ed, Washington, DC, 1958 (Government Printing Office, \$1.75).

CONTENTS

I	<i>James Buckley and Cynthia Valdes-Pages</i> Teledyne Isotopes Radiocarbon Measurements XII	329
IRPA	<i>Michèle Dauchot-Dehon, Mark Van Strydonck, and Jos Heylen</i> Institut Royal du Patrimoine Artistique Radiocarbon Dates VIII	345
ISGS	<i>Chao Li Liu and Dennis D Coleman</i> Illinois State Geological Survey Radiocarbon Dates VII	352
Lu	<i>Sören Håkansson</i> University of Lund Radiocarbon Dates XIV	384
UM	<i>Sharon Crabtree and J J Stipp</i> University of Miami Radiocarbon Dates XXI	404
Z	<i>Dušan Srdoč, Adela Sliepčević, Bogomil Obelic, and Nada Horvatinčić</i> Rudjer Bošković Institute Radiocarbon Measurements VI	410
	List of Laboratories	422
	Index to Volume 23	433