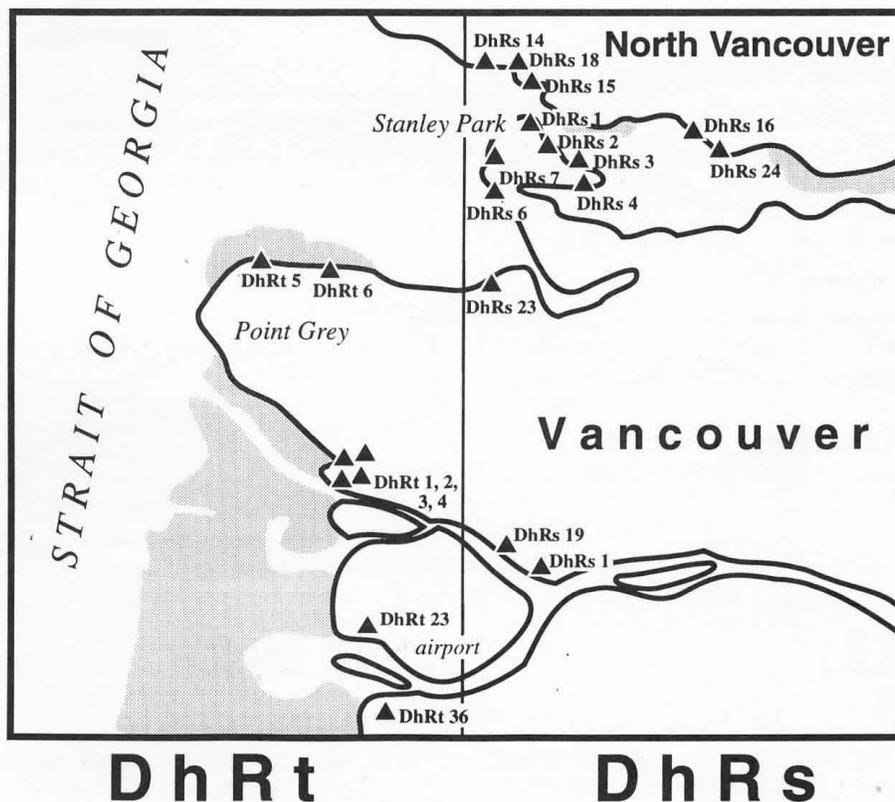


Some Vancouver Sites



THE MIDDEN

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AFFILIATED CHAPTERS

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Meetings featuring illustrated lectures are held on the third
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pm at 2615 Montrose Ave., Abbotsford, B.C.

Contact: Shirley Cook (859-5757)

Nanaimo

Meetings on the second Monday of the month at Malaspina
University College, Department of
Social Science, 900 Fifth St., Nanaimo, B.C. V9R 5S5.

President: Nan Blackburn (758-4319)

Programme Chair: Laurie Hayden

Victoria

Meetings on the third Thursday of the month at 7:30 pm at
the Royal British Columbia Museum, Victoria..

Contact: Tom Bown

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FRONT COVER:

*Close-up of sub-grids DhRt and DhRs covering the Greater
Vancouver area. The Archaeology Branch in Victoria assigns numbers
progressively to sites within sub-grids in the order that they are
reported. The first site recorded in the "DhRs" grid was the Marpole
site, DhRs 1. The first sites in the "DhRt" grid are on the Musqueam
reserve (DhRt 1, DhRt 2, DhRt 3, DhRt 4), Point Grey (DhRt 5),
and Locarno Beach (DhRt 6). See "EaSt FiSh DiRt FaRm," page 5.*

ASBC DIARY

The November 1994 meeting will be held at 8:00 pm in Room
AQ3182, East Concourse, SFU. A new venue will be
announced for December.

Nov. 9 Dana Lepofsky, PhD U. Of C. (Berkeley)
"Pre-historic Plant Use at the Keatley Creek Site,
Lillooet"

Dec. 14 Caroline Williams, Classical Archaeology, U.B.C.
"Pots and the Past: 12 years of Excavation in Mytilene,
Greece"



THE MIDDEN

BYE-BYE, BIELY

Another goodbye! Alison Biely, who so ably filled in “for just a few months” helping to prepare *The Midden* for publication after the last production manager moved to Calgary, stayed with us for nearly two years. She headed off to Montreal this fall to do a programme in Communications at Concordia University. I’ll miss Alison’s willingness to cheerfully put up with an eccentric work schedule. Our sessions often lasted late into the evening after a full day at our other jobs.

However, just as things were looking grim, another volunteer appeared on the scene. Doris Cheung will be our new Production Manager. *The Midden* will once again be produced with Quark Express. Things may be a little shaky at first as we make the switch, but please bear with us. We’ll soon have the Midden up and running smoothly again (or, at least as smoothly as it ever did).

Joyce Johnson
Editor

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"The third Archaeology Forum held at the Secwepemc Cultural Centre"

... On October 1st many women who are involved in B.C. archaeology gathered together for the 6th time, again at the Quayside Restaurant in New Westminster, to renew acquaintances, eat a hearty brunch and drink lots of coffee, after which followed a discussion of B.C.'s new heritage protection legislation with **Kim Lawson** of the Archaeology Branch, and **Pam Spalding** of the Heritage Conservation Branch.

... **Alexandra Maas** defended her Master's thesis at SFU on July 25th. Her subject was "The Adoption and Use of 19th Century Ceramics at Old Bella Bella, British Columbia." Alex analyzed the ceramic assemblage from the site of Fort McLoughlin/Old Bella Bella, a Hudson's Bay Company fort established on the B.C. central coast in 1833, and later the site of a Heiltsuk community. She examined the adoption and use of 19th century ceramics by the occupants of Old Bella Bella in the context of changing cultural dynamics that were occurring during this period.

... On August 8th at SFU **Jacqueline Dale** defended her Masters thesis entitled "Cribra Orbitalia, Nutrition and Pathogenic Stress in Prehistoric Skeletal Remains from the Pender Canal Sites (DeRt 1, DeRt 2), British Columbia, Canada." Jacqui examined the skeletal material from the Pender Canal sites which were excavated by Roy Carlson and Phil Hobler between 1984 and 1986. Her research identified a high incidence of cribra orbitalia (orbital lesions) in the skeletal sample from Pender, which she suggested relates more to factors of infection and pathogenic stress rather than to dietary deficiencies.

... Again at SFU, **Michael Richards** defended his thesis, "Luminescence Dating of Quartzite from the Diring Yuriakh Site." Mike's research involved experimental work applying luminescent dating techniques to quartz grains extracted from lithic samples recovered from the Diring Yuriakh archaeological site in Siberia, Russia.

... The latest thesis defense at SFU was **Andrew Barton's** on October 14th. The thesis, "Fishing for Ivory Worms: A

Review of Ethnographic and Historically Recorded Dentalium Source Locations," reviewed and evaluated historic and ethnographic documents that identify locations where dentalium shells were procured by West Coast Native North Americans.

... Spending a lot of time in the woods lately is **Heather Pratt**, the newest full-time employee at Arcas Consulting Archaeologists. Her prime responsibility is as a CMT specialist.

... On Wednesday evenings at UBC this spring, **Dana Lepofsy** will teach "An Introduction to Archaeology." One section of this beginning archaeology course is usually offered in the evening each semester. Taking the course, however, requires formal application to UBC through the Registrar's Office. Dana also spoke at the November 9th meeting of the ASBC.

... **Doug Brown**, a grad student at UBC, has been out at Somenos Creek near Duncan this fall conducting an excavation which he will use as the basis for his MA thesis. The excavation is to mitigate an area being cleared for development of a subdivision.

... Beginning with the November/December issue, people with access to Internet will be able to read the *SAA Bulletin* on-line. Simply type: **gopher alishaw.ucsb.edu** and from the display screen, select "SAA Bulletin."

... To find out more about **prehistoric underwater archaeology** via the internet, contact Bcarter@pine.Circa.Ufl.Edu. The internet will be set up by CMAS (confederacion mundials de academias submarine).

... About 150 B.C. archaeologists and representatives from First Nations groups attended the third annual B.C. **Archaeology Forum** held on November 19th and 20th at the Secwepemc Cultural Centre at the Shuswap reserve in Kamloops. The forum was hosted by SCES/SFU, a university programme for First Nations students.

AT THE ARCHAEOLOGY BRANCH

WHO'S WHO

Looking through the phone book, I was surprised to see that archaeology did not appear as a listing, anywhere—not in the white pages (apparently no one's name is "Archaeology"); not in the yellow pages (there is no subject heading "Archaeology," so even archaeological consultants don't appear); and not in the blue government listings. How does someone who needs an archaeologist find an archaeologist? How does someone find the Archaeology Branch? It is not even listed under the Ministry of Small Business, Tourism and Culture (for those who even know that that is where the Archaeology Branch is hidden).

To get one step ahead of the game, at least for those of you who read The Midden, here is an introduction to the Archaeology Branch in Victoria. Following is a listing of all the people who work at the Branch, their positions, a general description of what they do, and a direct phone number at which to reach them. Now when you have a question, you know whom to call (don't forget to call through the toll-free number listed under "Enquiries B.C." in the blue pages of the phone book).

BY RAY KENNY

The mandate of the Archaeology Branch is to facilitate the protection, conservation and public appreciation of the province's archaeological resources under authority of the HERITAGE CONSERVATION ACT (the ACT). The Branch carries out its mandate through the implementation of three programmes:

- Planning and Assessment
- Inventory and Mapping
- Treaties and Education

Each program has a Manager, a Senior Program Co-ordinator, and several Project Officers.

The **Director** of the Archaeology Branch is Brian Apland. He provides management direction to Branch staff and policy advice to the ministry executive and cabinet committees.

Administrative Staff provide support for contract management, maintain leave-recording, personnel management, word processing, filing systems, purchasing, etc. There are three positions on the Administrative Staff:

Office Manager:
Gail Christianson 356-2049

Branch Secretary
Beth Dangerfield 356-2045

Branch Receptionist
Dana Woolard 356-0882

Branch Fax number: 387-4420

Planning and Assessment

The objective of the Planning and Assessment programme is to facilitate the

protection and conservation of archaeological sites in the context of development projects and other competing land uses. This objective is largely achieved through participation in project review processes for major energy, mining and industrial projects, integrated resource planning initiatives, and administration of a permit system which regulates investigations conducted by archaeologists on sites protected under the ACT. The Project Officers review permit applications, issue permits, and monitor permitted projects; represent the Branch in land and resource management planning; and represent the Branch on project review committees under the new environmental assessment process. Planning and Assessment staff include:

Manager (vacant)

Senior Program Coordinator
Ray Kenny 356-1438

Project Officers
Steve Acheson 356-1439
Doug Glaum 356-1054
Al Mackie (Dec. 5/94)
Bob Powell 356-1039
Dave Suttill 356-1050
(1 position vacant)

Inventory and Mapping

The objective of the Inventory and Mapping program is to provide archaeological resource data in support of provincial land allocation and resource management decision-making, aboriginal land claims, academic research, and the public education and appreciation of these resources. This objective is largely achieved through maintenance of a registry of sites designated under the ACT, a central computer-based site inventory,

and the development of archaeological site-potential mapping and predictive modelling. Inventory and Mapping staff include:

Manager (vacant)

Senior Program Co-ordinator
John McMurdo 356-1053

Project Officers
Jack Foster 356-1055
Heather Moon 953-4039
Pradeep Singh 953-4039
Ian Whitbread 356-1052

Treaties and Education

The objective of the Treaties and Education program is to provide support to provincial treaty negotiations with respect to the management of archaeological sites, as well as to foster the public education and appreciation of these resources. This objective is largely achieved by providing representation and liaison to provincial treaty negotiations, participating in interim-measures negotiations, and encouraging initiatives in the research, interpretation and conservation of archaeological resources. Treaties and Education staff include:

Manager (vacant)

Project Officer, Interim Measures
Jim Pike 356-1199

Project Officer, Treaties (vacant)

Project Officer, Education
Kim Lawson 356-8083

Ray Kenny is Senior Program Coordinator of Planning and Assessment at the B.C. Archaeology Branch in Victoria.

NEW PUBLICATIONS

Eagle Transforming: The Art of Robert Davidson

by ROBERT DAVIDSON and ULLI STELTZER

University of Washington Press: Seattle, 1994

174 pp, 103 duotone illus, notes. \$39.95 US (cloth)

In the accompanying text and captions Davidson writes about growing up Haida and his development as an artist. He describes the creative and practical process of carving poles and masks, and discusses the place of art in Haida culture.

Haa Kusteeyí, Our Culture: Tlingit Life Stories

edited by NORA MARKS DAUENHAUER and RICHARD DAUENHAUER

University of Washington Press: Seattle, 1994

660 pp, 210 photos, appendices, bibliog. \$40.00 US (cloth); \$24.95 US (paper)

The book features biographies and life histories of more than 50 men and women, most born between 1880 and 1910. Combining historical documents and photographs with accounts gathered from living memory, it provides evidence of patterns of interaction among people and communities of today, and across the generations.

Indian Fishing: Early Methods on the Northwest Coast

by HILARY STEWART

University of Washington Press: Seattle, 1994

182 pp, 450 drawings, 75 photos, map, bibliog, index. \$19.95 US (paper)

Photographs, drawings and written text emphasize the vast range of technological knowledge and skill the Native Americans possessed in relation to the sea and its resources in this book about fishing, tools, methods, culture, and their relationship. It demonstrates the craft, technology, art and spirituality of the peoples nourished by the rich seas that stretch from the Columbia to Alaska.

Archaeological Fieldwork Opportunities Bulletin (1994)

ARCHAEOLOGICAL INSTITUTE OF AMERICA

Kendall/Hunt Publishing Co., Order department, 2460 Kerper Blvd., Dubuque, IA 52001 USA

\$8.50 US (AIA members); \$10.50 US (non-members); plus \$3.00 US shipping and handling

Over 750 listings of excavations, field schools, and special programmes throughout the world with openings for volunteers and students.

EXHIBITIONS

September through
November

Chinese Ceramic Figurines

Lower Lobby, UBC Museum of Anthropology
6393 N.W. Marine Drive, Vancouver, B.C.

A display of ceramic figurines portraying people and animals which were placed in Chinese tombs to accompany the deceased to the afterworld.

EaSt FiSh DiRt FaRm

BY JOYCE JOHNSON

EaSt DiRt FiSh FaRm? What does that mean? Well, these are all site locations in B.C. EaSt sites are on the West Coast of Vancouver Island; FiSh sites are around Natulkus Lake in Tweedsmuir Park; DiRt sites are in the Horseshoe Bay area of West Vancouver; FaRm sites are in the Williams Lake area near Quesnel in the Interior of B.C.

You will notice that every time a site is mentioned in *The Midden* it is followed in parentheses by a group of letters and a number. This is the Borden designation of the site which locates it precisely within an 11.5 x 7 mile area.

When Charles E. Borden began excavating sites in B.C. in the mid-1940s, he identified the sites and their artifacts by a code that made sense to him and others familiar with the excavation—Ma for Marpole, MuNE for Musqueam Northeast, Wh for Whalen Farm. In the early '50s he became aware that this would soon become inadequate:

The quickening of archaeological research in various parts of Canada during recent years makes it increasingly urgent that Canadian investigators and institutions come to an agreement on some practical and uniform system for designating archaeological sites (Borden 1952:45).

The three-part numbering system used in the U.S. identifies the site by the alphabetical number of the state, an abbreviation of the county, and a sequential site number assigned during the survey. However, that would not work in Canada because a good part of the country is not subdivided into such fixed geological units. Early surveys of B.C. alone

had shown thousands of sites which would have to be identified simply and precisely.

With the help of Wilson Duff, in 1952 Borden eventually devised and presented a system which was adopted across Canada with some minor refinements. Anyone with a basic understanding of the system should be able to locate a site, generally, anywhere in Canada by its Borden designation.

"...in 1952 Borden eventually devised and presented a system which was adopted across Canada..."

Borden's system is based on the National Topographic Series (NTS) maps produced by the Department of Energy, Mines and Resources. These maps form a grid covering Canada, with each map representing a unit of the grid two degrees high by four degrees wide.

Beginning with "A" at the southern-most corner of eastern Canada, somewhere off the coast of Nova Scotia, and progressing through the alphabet as he moved northward, Borden assigned a capital letter to the vertical axis of each square of the grid (See Fig. 1). Again, beginning in the same square, but progressing westward, he assigned a second capital letter to the horizontal axis of each square beginning with "A." Sites falling within the area covered by a grid-square were identified by the appropriate two capital letters.

A slight irregularity occurs in the scheme above 62 degrees of latitude where the maps cover an area the same height but twice the width (i.e., 2 degrees by 8 degrees) because of the converging of the lines of longitude as they near the north pole. Here the grids are identified by every other capital letter of the alphabet horizontally to line up with those below.

The grid covering B.C. extends north from D through I, and west from P to V, and consists of 27 NTS maps (See Fig. 2). Each grid-map's co-ordinate is described first by its vertical letter, then by its horizontal letter. "DR" is the grid covering the Lower Mainland of British Columbia (Fig. 3).

Each grid-square is then further broken down into smaller increments of 10-minutes per degree. Each 10' increment is given a lower case letter, first along the vertical axis, then along the horizontal axis, beginning again with "a" in the lower right-hand corner of each map. Site designations consist of a series of four letters which follow the pattern of AbCd. For example, DhRs is the area which covers the majority of Greater Vancouver, and DhRt lies to the west over the Point Grey area (see map on front cover).

The provincial government - in B.C., the Archaeology Branch, Ministry of Small Business, Tourism and Culture - then assigns numbers sequentially to sites in the order that they are reported within each grid area. Hence in the Vancouver area we have DhRs 1, the Marpole Site, which was the first site recorded in that area. So far, over 275 sites have been recorded in this sub-grid.

Why don't we simply use its latitude and longitude co-ordinates to identify a site? Using the Borden system, Canadian archaeologists can label each artifact from a specific site with numbers which consist of the site number followed by a colon, and then an artifact number which is assigned sequentially to each artifact. A number consisting of the latitude and longitude co-ordinates of a site followed by the artifact number would simply take up too much room on most archaeological artifacts, and would tend to obliterate important details.

Since several excavations by different people may occur on a single site, to avoid duplication of artifact numbers the Manager of the Archaeology Collection at the Royal British Columbia Museum (RBCM) acts as a central "clearing house" and maintains an inventory of all artifact numbers used for each site in B.C., and of the institution which uses them. The current Manager is Nancy Romaine at 387-2499. Anyone numbering artifacts from a recognised site should obtain the next available artifact numbers in the series from her.

References cited:

Borden, Charles E., 1952. *A Uniform Site Designation Scheme for Canada*. Anthropology in British Columbia, No. 3, Victoria, pp 44-48.

Joyce Johnson is the Research Assistant/Technician in the Laboratory of Archaeology at U.B.C., and currently editor of The Midden

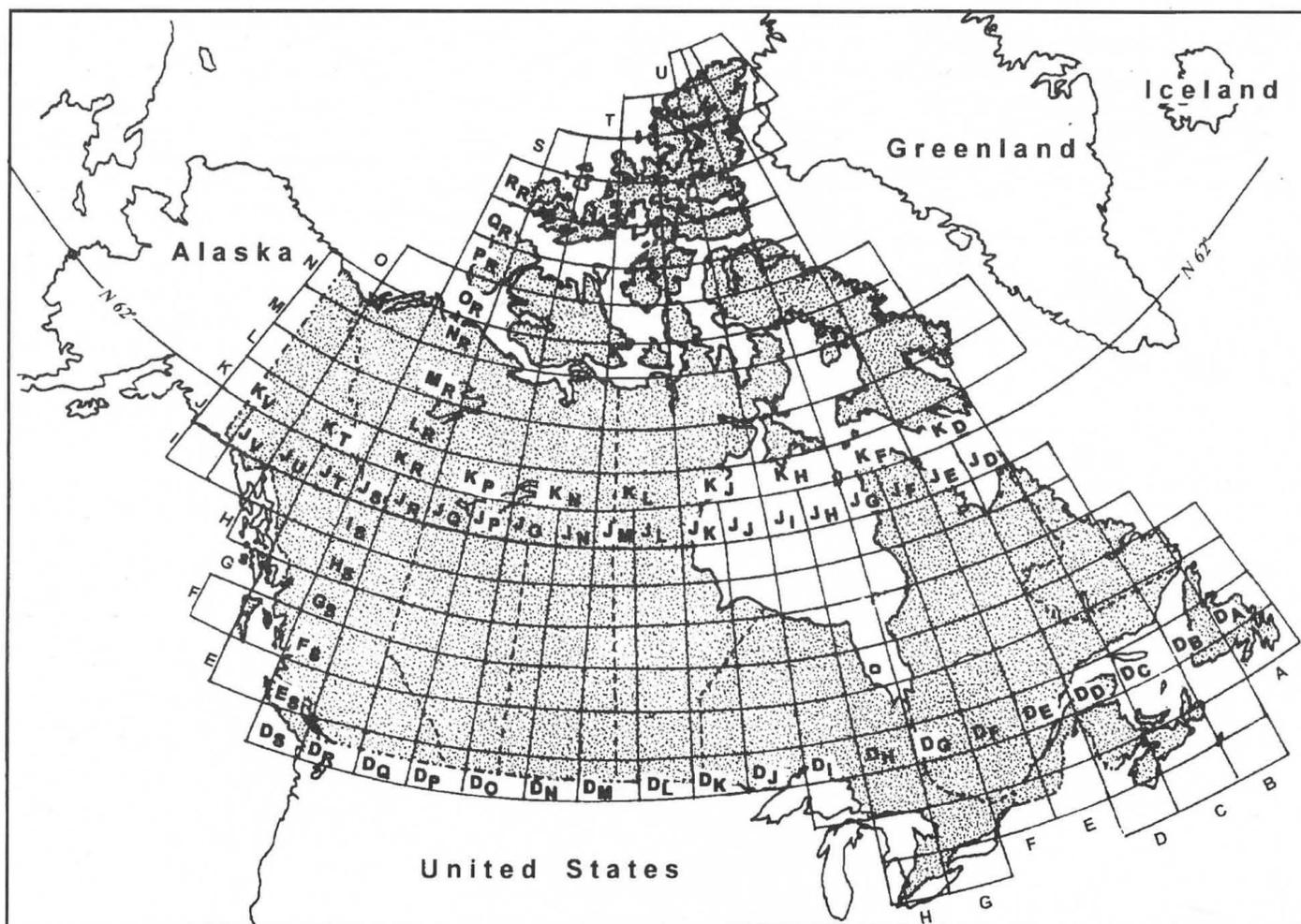
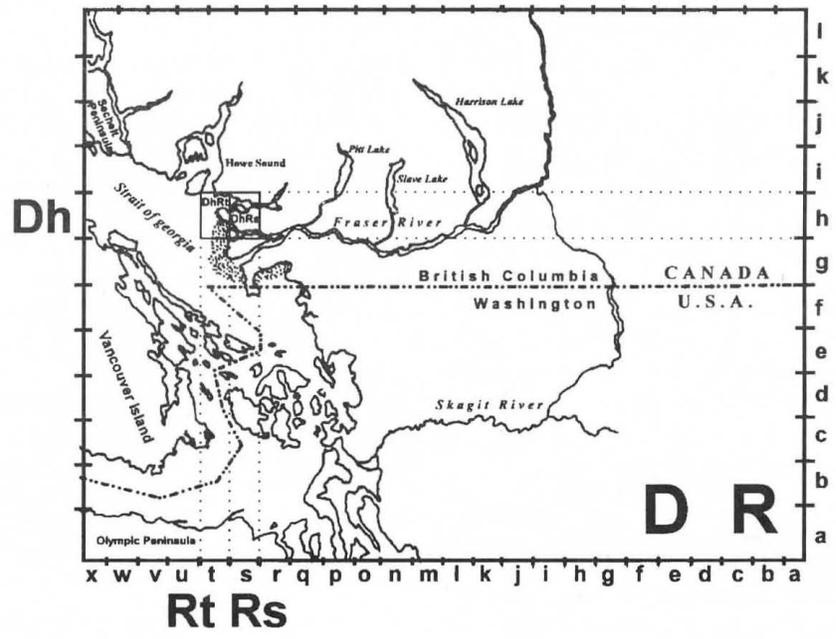


Figure 1. The Borden grid system (based on 1:250,000 NTS maps) laid over Canada. Longitudes should be read from "A" at the bottom (south) to "U" at the top (north); latitudes from "A" at the right hand side (east) to "V" at the left (west). The two letters in each square determine the Borden grid unit. All sites beginning with a capital "D" are at the same latitude across Canada; all sites whose second capital letter is "R" are at the same longitude



Figure 2. British Columbia overlaid with Borden's grid showing some B.C. locations within the grid. "EaSt" sites lie in the "ES" square on the west coast of Vancouver Island. "FiSh" sites are in the "FS" square around Natulkus lake in Tweedsmuir Park. "DiRt" sites in the "DR" section of the grid are in the Horseshoe Bay area of North Vancouver; and "FaRm" sites in "FR" are located in the Williams Lake area of the Interior.

Figure 3. "DR" grid: the Lower Mainland of B.C. showing sub-grids at every 10 minutes of a degree along both longitude and latitude. Note that the lower case alphabet reads in the same order as the larger grid—first from bottom to top along the longitude, and second from right to left along the latitude. The vertical scale is read first, horizontal scale second. Greater Vancouver lies within "h" on the vertical axis, and between "s" and "t" on the horizontal. Therefore sites within the Greater Vancouver area will have as their site designation either "DbRs" or "DbRt."



SEE FRONT COVER FOR FIGURE 4. Closeup of sub-grids DhRt and DbRs covering the Greater Vancouver area showing some Vancouver sites.

FIELD NOTES

GULF OF GEORGIA CANNERY

Last spring Mary Quirolo was in Steveston on behalf of Arcas Consulting Archaeologists to monitor excavations at the Gulf of Georgia Cannery site. Development of the site by the Canadian Parks Service as a National Heritage site includes construction of a wheelchair access ramp and remediation of oil-contaminated sediments.

Hundreds of artifacts were recovered. Those from the wheelchair ramp area are almost entirely attributable to European-Canadian occupants, and those from the soil remediation area, nearly all represent the pre-World War II occupation of Steveston by Japanese-Canadians.

GANGES

In May, Richard Brolly and Robert Muir (ARCAS) were at Ganges on Saltspring Island carrying out an archaeological impact assessment for private development of property at the Harbour House Hotel. The property represents the inland edge of a midden site (DfRu 3) which has been severely disturbed by over a century of historical land use.

Brolly and Muir encountered scattered, shallow midden deposits of low to moderate significance in about one-third of the property, primarily the right-of-way for a new access road off Upper Ganges Road. Subsequent monitoring of this location in June revealed only a small amount of intact, shell midden with no artifacts or human remains.

CASTLEGAR

Two historical sites were identified by Richard Brolly and Karen Preckle (of ARCAS) during an archaeological impact assessment for road reconstruction and approaches to a new Robson Road bridge over the Columbia River at Castlegar.

DhQj 31 consists of a cluster of 20 boulder cairns on a rocky slope above the Kootenay River at Brilliant. DhQj 32, contains the concrete foundations and

garden retaining walls of the original site of the tomb of Peter "The Lordly" Verigin (a spiritual leader who led the Doukhobours from Saskatchewan to B.C. before WW1, and who was assassinated by a terrorist bomb in 1924).

Five of the cairns, and sections of two of the retaining walls will be destroyed by proposed construction of the Brilliant Interchange.

TSAWWASSEN

Near the northern end of the Beach Grove site (DgRs 1), an archaeological impact assessment by Richard Brolly, Robert Muir and Susan Woods (ARCAS) identified about 3000 square metres of intact midden deposits that would be impacted by a proposed townhouse development.

This property was previously excavated by Don Abbott in 1956 when a 10-foot deep midden mound was tested. The neighbouring property on the south was excavated by a VCC field school under the direction of Stan Copp and Bruce Ball in 1977.

Joanne Curtin and Chris Knusel recovered a burial from the location. ARCAS recommended Systematic data recovery by excavation and monitoring, if the development cannot be redesigned to avoid the midden deposits. The developer's plans are currently being reviewed by the municipality of Delta.

KAMLOOPS

On the Thompson Plateau north-west of Kamloops at about 5000 feet above sea level, Robert Muir and Gladys Baptiste (ARCAS) conducted an archaeological impact assessment of two timber harvesting blocks for Weyerhaeuser Canada in the Wentworth/Brown Lakes area.

The assessment resulted in the identification of a lithic scatter (which included a Kamloops Phase projectile point) in the draw-down zone of Wentworth Lake. An historical stone dam constructed across the outlet of the lake in 1911 was also noted. Neither of these sites conflict with the proposed timber harvesting plans.

MORE TSAWWASSEN

In the 1970s, ASBC members excavated DgRs 9 on Tsawwassen Beach Road. While assessing the impact of development of a private house near the site in June of this year, Arnaud Stryd of Arcas Consulting Archaeologists, encountered intact midden deposits. Deposits conflicting with the development, however, were of low significance.

JOHNSTONE STRAIT

Early this fall Geordie Howe found himself in Johnstone Strait conducting an archaeological site inventory for ARCAS on Alder Island, a small privately owned island in the Strait. Two sites originally recorded in the early 1970s by Don Mitchell were revisited and re-recorded.

Two other midden sites and some culturally modified trees (CMTs) were identified and also recorded. The owner's proposed house construction on the island will not conflict with any of these sites.

DEPARTURE BAY

Geordie Howe and Richard Brolly (ARCAS) were together in Nanaimo last September to assess the impact of a proposed townhouse development. The private property being developed was located near the northern end of the Departure Bay site (DhRx 16).

About 200 square metres of intact midden were encountered during the impact assessment. If the proposed townhouse development cannot be redesigned to avoid the cultural deposits, ARCAS recommended systematic data recovery by excavation and monitoring.

UCLUELET

In September, Richard Brolly (ARCAS), Rick Howard, and Ray Haipee conducted a site survey of behalf of the Ucluelet First Nations at two locations on the West Coast of Vancouver Island—Ucluelet and Effingham Inlet. A total of 15 new sites were identified

and recorded. At Ucluelet, 11 sites include three with CMTs and logging features, one historical burial, and seven middens. The four sites at Effingham Inlet include two CMT sites with logging features, one midden, and one pictograph site. The pictograph consists of two panels containing anthropomorphic and zoomorphic figures.

ARCHAEOLOGICAL OVERVIEWS

ARCHEO TECH teamed up with ARCAS in July and August for Arc-Info based GIS mapping of the Clayoquot area on the west coast of Vancouver Island to provide an overview of cultural heritage resource potential in the Clayoquot Land Use Decision. The project involved mapping of resource potential polygons using previously recorded archaeological site data, traditional site locations, and "structural features" (i.e., historic sites). The mapping was done at a scale of 1:20,000.

Meanwhile, Diana Alexander and Robert Muir were working for ARCAS on other GIS Arc-Info based mapping of archaeological resource potential in part of the Kamloops Forest District. Unlike the Clayoquot Land Use Decision overview,

this Land and Resource Management Plan overview did not incorporate traditional use sites, since it was designed to supplant the smaller scale C.O.R.E. studies of two years ago. Documented ethnographic information was used, instead, to develop the site location models used for mapping resource potential at a scale of 1:250,000.

CMTs

This year alone, ARCAS has surveyed a total of about 57 timber harvesting blocks on Vancouver Island and recorded a total of 22 separate and/or distinct CMT sites, representing over 300 culturally modified trees. The release of the new Forestry Practices code has instigated a lot of the work recently done for MacMillan Bloedel, Interfor, Pacific Forest Products, and various offices of the Ministry of Forests.

Surveys involve locating and documenting the CMTs present in an area. CMTs are of two different types—logging features, and bark strips. Detailed notes are taken to provenience the trees, and they are measured, drawn and photographed. ARCAS makes up site inventory forms for all the CMT clusters found, and submits these to the Archaeology Branch. All information is compiled in a database

which will eventually allow comparison of the data.

Most of the work has taken place on Vancouver Island, from Zeballos to Ucluelet, with First Nations people employed from the various areas. In order to predict where CMTs might be, the most important factor to consider is canoe accessibility that would permit transport of huge cedar planks or logs. Good cedar trees do not necessarily grow right at the water's edge.

CMT studies have much potential in archaeology. Good dates can be obtained from individual trees, or even from a section of a bark-stripped tree. The dates are obtained through the study of a tree's rings which vary in thickness depending on climatic changes during the life of the tree. The age of trees can be determined by comparing their ring pattern with a chronology of tree rings that extends back into the past. Marion Parker has built up the most extensive dendrochronology of this area and is doing the dating for ARCAS.

For further information about CMTs, see "CMT Archaeology in British Columbia: The Meares Island Studies" by Arnaud Strydom Morley Eldridge in BC Studies No. 99 (Autumn 1993): Changing Times: British Columbia Archaeology in the 1980s.

F. Y. I.

Here are some more free publications that might be of interest to some of our readers:

British Columbia Heritage Trust: An Introduction

Describes the purposes and services of the Trust, funding available for different types of projects, and how to prepare a project proposal.

Available from: B.C. Heritage Trust, 5th floor, Johnson Street, Victoria, B.C. V8V 1X4 Tel. 356-1433; fax 356-7796.

(Don't forget the Enquiries B.C. toll-free numbers: from Vancouver call 660-2421; outside Vancouver 1-800-663-7867)

British Columbia First Nations Guide

A handsome, glossy 6-page publication interleaved with 4 pages of vellum depicting original prints by current First Nations artists; contains a brief introduction to the First Nations peoples of B.C. and some of the cultural experiences offered throughout the province by some of these groups.

Co-published by the First Nations Tourism Association; for more information call 1-800-663-6000.

NEWS ITEMS

ARCHAEOLOGY POSITION

SIMON FRASER UNIVERSITY
DEPT. OF ARCHAEOLOGY
BURNABY, BRITISH COLUMBIA

The Department of Archaeology invites applications for the tenure-track position of Assistant Professor to teach undergraduate and graduate courses and to undertake research in the archaeology of the Northwest Coast. Ph.D. required. Applicants should provide evidence of their ability or potential to teach courses in archaeology, to direct field projects, and to publish their research. Highly qualified individuals without Northwest experience who are willing to switch their research and teaching focus are also encouraged to apply. In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and Permanent Residents. Simon Fraser University is committed to the principle of equity in employment and offers equal employment opportunities to qualified applicants.

Applications, including a C.V. and names and addresses of three referees, should be sent to Dr. J. Driver, Chair, Department of Archaeology, Simon Fraser University, Burnaby, B.C., V5A 1S6. Deadline for receipt of applications is December 31, 1994. Please note that this position is subject to final budgetary approval.

CAA First Call for Papers

The 28th Annual Canadian Archaeological Association meetings will be held May 3-6, 1995 at the Coast Capri Hotel in Kelowna, B.C.

Symposia/sessions are being planned on the following topics:

- Cultural Resource Management
- Paleo-Ecology
- Historic Archaeology and Ethnic Relations
- Northwest Coast Prehistory
- Interior Plateau Prehistory

- Women and Archaeology
- Canadian Archaeology in an Historical Context

Please submit paper titles and suggestions for symposia to:

*Diana E. French
CAA Conference Chair
Dept. of Anthropology/Sociology
Okanagan University College
333 College Way, Kelowna, B.C. V1V 1V7
Tel. (604) 762-5445 local 7363; Fax (604) 470-6001*

GRIZZLY BEAR

Kelowna is an Interior Coast Salish word meaning Grizzly Bear. Kelowna is also where the 1994 BC STUDIES CONFERENCE took place on October 7th-10th. Since this was Thanksgiving weekend, attendants were encouraged to bring their families to enjoy a long autumn weekend in the Okanagan Valley. Besides tours to orchards and the many heritage sites in the area, events and activities at Kelowna's Orchard Museum were planned for adults and children alike.

Meanwhile at the conference, many of the academic sessions focussed on the archaeology of the Interior Plateau. At the session entitled Early Cultural History: Current Archaeological Perspectives on the Plateau, the following papers were presented: "The Plateau Interaction Sphere" (Brian Hayden and Rick J. Schulting); "Static Sites on a Dynamic Landscape: Changing Land Use and Ecology in the Prehistoric Interior Plateau" (George Nicholas); "An Ethnohistorical Account of the Indigenous People of the Similkameen Valley" (Douglas Hudson); "Domestic Dogs at Keatley Creek" (David Crellin); "Accommodation and Resistance of Native Culture with European Contact at Fort Kamloops" (Catherine Carlson); "An Archaeological Perspective on Archaeology, Tourism and Parks" (Michael Rousseau); "Similkameen Rock Art" (Stan Copp).

Papers from the conference were available at \$2.00 per paper. It may still be possible to get copies. Contact Carol Thompson, Registrar,

BC Studies Conference '94, 1234 Mission Ridge Road, Kelowna, B.C. V1W.

ANCIENT TRAVELLERS

Each year archaeology students at the University of Calgary organize the popular Chacmool Conference. The conference this year opened with a registration reception from 7:00-11:00 on Thursday evening, November 10th.

The first two sessions, running all day Friday, included Pacific Voyages, and Journey as Literary, Mythical, and Ideological Construct. Other sessions in the afternoon on Friday were Beyond the Intrepid Voyageur: Alternative Perspectives to Travel; Company of Adventurers: North American Indian Travellers; Ancient Travel/Ancient Central Americans; Europe on the Move: Middle Palaeolithic to the Middle Ages; Blacksmiths, Slaves and Merchants: West African Travellers.

This first round of sessions was followed by an open house and reception in the evening at the Department of Archaeology at the university from 5:00-7:00 pm.

Sessions resumed Saturday morning with Disease as Traveller, and Explorers, Exploiters and Expeditions). Saturday afternoon's schedule was as full as Friday's—Water Transportation; Trade, Subsistence and Population Movement; The Knowledge of Distance; Transportation Networks of the World; Trails and Travellers of the Canadian West; Mitigation in the American Southwest.

The conference banquet closed the formal portion of the conference on Saturday evening, November 12th, with an address by Dr. Roger Green from the University of Auckland.

On Sunday, for those who were able to stay, there was a full-day field trip to the world heritage site, Head-Smashed-In Buffalo Jump.

Issued by the B.C. Archaeology Branch, June-September 1994

- 1994-078 Mike Rousseau: impact assessment of proposed Huckleberry open pit mine and access road, near Kemano.
- 1994-079 Mike Rousseau: impact assessment of proposed forestry operations within UBC's Alex Fraser Research Forest, Williams Lake Forest District.
- 1994-080 Sandra Zacharias: impact assessment of MoTH bridge project at Horsefly River, Cariboo Land District.
- 1994-081 Ian Wilson: impact assessment of Skeena Cellulose Inc. and access roads, east of Terrace.
- 1994-082 Morley Eldridge: impact assessment of 3 proposed MoTH projects, Vancouver Island Highway Region.
- 1994-083 Keary Walde: impact assessment of proposed petro and natural gas developments in northeastern B.C.
- 1994-084 Diana French: impact assessment along the north and south of Murray Lake, Cheslatta Falls, east end of Chelsatta Lake, and shoreline of Holy Cross Lake.
- 1994-085 Sandra Zacharias: impact assessment of subdivisions at Drewry Lake, Buffalo Creek, and 100 Mile House, Lillooet District.
- 1994-086 Geordie Howe: impact assessment of proposed forestry cutblocks in the Cariboo/Chilcotin region.
- 1994-087 Ian Wilson: impact assessment of sites DfRu 71 and DfRu 72 and adjoining property, Galiano Island (Cowichan District).
- 1994-088 John Dewhirst: monitoring of geotechnical test excavations within site DhSb 30 on Nanoose Bay.
- 1994-089 Len Ham: impact assessment of Sandspit Airport's upgrading development, Moresby Island.
- 1994-090 Jeff Bailey: impact assessment of BC Lands proposed subdivision and development, Lot 1, Williams Lake, Cariboo District.
- 1994-091 Alan McMillan: excavations at Ch'uunat'a (DfSu 14) southwest of Toquaht Bay on the George Fraser Islands.
- 1994-092 Doug Brown: inventory of DeRw 18, Somenos Creek, Duncan.
- 1994-093 Ian Wilson: impact assessment of DBA Hog Contracting's proposed timber harvesting at Lizzie Cove, Hunter Island, Coast District.
- 1994-094 Ian Wilson: impact assessment of cutblocks, log dump and access roads on Somerville Island, Douglas Channel, and Pitt Island, Coast District.
- 1994-095 Heather Pratt: impact assessment of Ministry of Forest's proposed log dump and road near Brand Creek, Effingham Inlet, Clayoquot District, and proposed road near Julia Passage, Barclay District.
- 1994-096 Wayne Choquette: impact assessment of Balfour Ferry Terminal, Lot D 2155, Kootenay District.
- 1994-097 Arne Carlson: inventory of Nechako Canyon/Cutoff Creek areas, Coast District.
- 1994-098 Len Ham: impact assessment of 444717 BC Ltd's proposed development at 1394 and 1406 View Crescent, Tsawwassen.
- 1994-099 Robert Muir: impact assessment of proposed subdivision of Lot A, Plan 26989, East Barriere Road, northwest Kamloops.
- 1994-100 Mike Rousseau: impact assessment of various Timber West Forest Ltd's operation in Williams Lake Forest District.
- 1994-101 Ian Wilson: impact assessment of proposed subdivision of District Lots 25 & 34, DfRu 6, DfRu 7 and DfRu 38, Galiano Island.
- 1994-102 Mike Rousseau: systematic data recovery and mitigative excavation for the Lytton Band's proposed water pipeline and booster station at the Stein River mouth, near Lytton.

- 1994-103 Jeff Bailey: impact assessment of Ministry of Forest's Small Business Forest programme development, Quesnel Forest District.
- 1994-104 Morley Eldridge: impact assessment of proposed subdivision at Maude Bay, Mayne Island.
- 1994-105 J. Marques: underwater survey of Friendly Cove, Nootka District.
- 1994-106 Bjorn Simonsen: impact assessment of District Lot 10, Open Bay, Quadra Island.
- 1994-107 Mike Rousseau: impact assessment of Weldwood lake's cutblocks, access roads and other developments in the Williams Lake Forest District.
- 1994-108 Sandra Zacharias: impact assessment of Alternative 3 of the BC Hydro Barnes Creek diversion, District Lot 8185, Kootenay Land District.
- 1994-109 Ian Wilson: impact assessment of highway construction project, northeast 1/4 section, Township 19, Range 15, Kamloops district.
- 1994-110 Mike Rousseau: impact assessment of Fraser Mill Ltd's cutblocks and associated activities near Pelican Lake and the confluence of the Blackwater and Eucharinik rivers, Cariboo District.
- 1994-111 Ian Wilson: impact assessment of proposed subdivision in District Lot 749, Queen Charlotte District.
- 1994-112 Keary Walde: impact assessment of small scale forestry developments within the Prince George Forest District.
- 1994-113 Ian Wilson: impact assessment of Dean Channel Forest Product Ltd's cutblocks and associated developments near the mouth of the Kimsquit River, Coast District.
- 1994-114 Ian Wilson: impact assessment of Parcel E, Section 13, Range 1, south Saltspring Island.
- 1994-115 Len Ham: monitoring the realignment and construction of Ferguson Road in the vicinity of DhRs 299, Sea Island, Richmond.
- 1994-116 Len Ham: monitoring the excavation of a service trench along the Iona Island Causeway, Sea Island, Richmond.
- 1994-117 Mike Rousseau: impact assessment of Ainsworth Lumber's forestry operations within the Kamloops Forest District.
- 1994-118 Sandra Zacharias: monitoring of improvements to water outfalls on Annacis Island, Delta District Municipality.
- 1994-119 Morley Eldridge: AOA, Mount Ida, Salmon Arm District.
- 1994-120 Ian Wilson: inventory of Bute Inlet Development Corp's proposed fish farm at Orford Bay, Bute Inlet.
- 1994-121 Ian Wilson: impact assessment of cutblocks and access roads near Bear Lake.
- 1994-122 Doug Brown, Vicki Feddema: systematic data recovery at DeRw 18, Somenos Creek, Duncan.
- 1994-123 Keary Walde: inventory of Soda Creek IR #1, Cariboo District.
- 1994-124 Ian Wilson: impact assessment of proposed logging operations located east of the Fraser River.
- 1994-125 Ian Wilson: impact assessment of Interfor's logging operations in the Hotspring Creek area, Coast District.
- 1994-126 Bjorn Simonsen: inventory near the mouths of Fog Creek and Green Creek, King Island, Coast District.
- 1994-127 Ian Wilson: impact assessment of Pacific Northern Gas Ltd's pipeline realignment, Telkwa River, Coast District.
- 1994-128 Ian Wilson: overview and preliminary field reconnaissance of the Cacohtin and Nusatsum watersheds in Bella Coola Valley, Coast District.
- 1994-129 Sandra Zacharias: inventory of Transport Canada's proposed Sandspit Airport Terminal Building and ancillary facilities at Sandspit, Moresby Island, Queen Charlotte District.
- 1994-130 Ian Wilson: impact assessment of proposed bridge crossing of Babine River at GkSv 4.

CONFERENCES

1994

- November 10-13 **CHACMOOL, 27th Annual Conference, "Ancient Travellers"**
UNIVERSITY OF CALGARY, Alberta
More info: Ancient Travellers Conference, Dept. of Archaeology,
University of Calgary, Calgary, Alberta T2N 1N4
- November 18-19 **B.C. Archaeology Forum, Third Annual**
SECWEPEMC CULTURAL EDUCATION SOCIETY CAMPUS,
Kamloops, B.C.
Contact: Dr. George Nicholas, SCES/SFU, 345 Yellowhead Highway,
Kamloops, B.C. V2H 1H1. Tel (604)828-9799; Fax (604)828-9864.
- December 27-30 **A I A, Archaeological Institute of America, 96th Annual Meeting**
Marriott Marquis Hotel/Hilton and Towers Hotel, ATLANTA,
GEORGIA
More info: Shelly E. Griffin. AIA Conference Manager; Tel. (617) 353-936

1995

- January 4-8 **S H A, Society for Historical Archaeology, 28th Annual Meeting**
J.W. Marriot Hotel, WASHINGTON, D.C.
Contact: Henry M. Miller, Historic St. Mary's City, P.O. Box 39,
St. Mary's City, Maryland, USA 20686.
Tel. (301) 862-0974; Fax (301) 862-096
- April 26-30 **Hidden Dimensions: The Cultural Significance of Wetlands Archaeology**
UBC MUSEUM OF ANTHROPOLOGY, Vancouver, B.C.
Further info: Kathryn Bernick or Ann Stevenson, UBC Museum of Anthropology,
6393 N.W. Marine Dr., Vancouver, B.C. V6T 1Z2.
Tel. (604) 822-6530; Fax (604) 822-2974; E-mail: stevenso@unixg.ubc.ca
- May 3-6 **C A A, Canadian Archaeological Association, 28th Annual Meeting**
Coast Capri Hotel, KELOWNA, B.C.
Contact: Diana E. French, Conference Chair
Department of Anthropology/Sociology, Okanagan University College,
333 College Way, Kelowna, B.C. V1V 1V7.
Tel. (604) 762-5445, local 7363; Fax (604) 470-6001
- May 3-7 **S A A, Society for American Archaeology, 60th Annual Meeting**
Hilton Hotel, MINNEAPOLIS, Minnesota
Contact: Paul E. Minnas, Department of Anthropology,
University of Oklahoma, Norman, Oklahoma 73019.
Tel. (405) 325-2519; Fax (405) 325-3261; E-mail: aa6613@uokmvs.a.backbone.uoknor.edu

 **THE MIDDEN**

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