

Minister Sees Bright Future for Women in Science and Technology Fields

The Honourable Stan Hagen, Minister Responsible for the Status of Women, and Minister Responsible for Science and Technology, is encouraged about the increasing number of women entering science and technology and achieving distinction in these fields.

"Women are moving ahead in B.C. in all areas, including science," the Minister said. "Enrollment of women in the province's largest university, the University of British Columbia, has increased by over 50% in the last two decades in the areas of agricultural science, engineering and pharmaceutical science. Thirteen out of 19 recent winners of science scholarships at the University of Victoria were women. The Board of Directors of Science World in Vancouver is headed up by a woman, and one of the first scientists participating in my Ministry's new 'Scientists in the Schools' program is a woman—Dr. Sharon Proctor, a zoologist."

"I am excited about this new program," the Minister said. "It was created to increase an awareness of, and enthusiasm for, science and technology among students." As part of the program, many scientists and engineers, male and



Deborah George with the Hon. Stan Hagen

female, will be visiting elementary and high school students throughout the province. "It is my hope," the Minister continued, "that students will benefit from this exposure to role models who have achieved distinction in these particular areas, and who are excited about the work that they do. Proactive steps have been taken to ensure that women scientists are front and centre among these role models."

The Minister emphasized that parents also have a role to play in encouraging all

children, from a very young age, to view science as exciting. "There has been a change in the traditional approach and attitude to this. At one time, only boys were encouraged to take an interest in science, but now girls are just as involved, and rightly so." The Minister recommended that parents accompany their children to Science World, or to the various travelling display units that Science World staff will be taking to all parts of the province. In his view, it is important that parents encourage their children, particularly girls, to

pursue careers in science and technology. "These are the jobs of the future and they are challenging and well paid," the Minister said.

The Minister concluded by noting that initiatives are underway in his Ministry to increase access to apprenticeship training for women, encourage women to consider non-traditional occupations, and promote the advanced training in math and science for girls that will enable them to compete in the job market in an increasingly technological era. "I am seeing more and more examples," he said, "of women taking leadership roles in science, in math, in education, in business, and in community life, and I am most pleased to observe this trend."

Ministry Appoints Woman to Direct Science and Technology Division

Deborah George, Director of the Science and Technology Division of the Ministry of Advanced Education and Job Training, and Ministry Responsible for Science and Technology, did not foresee a career in which she would be directly involved in science and technology. Her formal training has been in psychology, but she admits that "math was always my best subject at school, and science has always held a particular fascination for me. It progresses so quickly and the enthusiasm of people in science is so wonderful."

Cont. on Page 2

In this issue:



WOMEN EXCELLING IN MATH AND SCIENCE CAREERS 4 & 5

SCWIST PUBLISHES
WORKSHOP GUIDEBOOK ... 2
SCHOOL FOR SCIENTIFIC
ENTREPRENEURS ... 2
WE SALUTE ... 3

TURNING THE SPOTLIGHT
ON SCIENCE 6
ADVISOR'S PAGE 7

In reviewing George's career path, it is easy to see how training and experience have helped her to advance quickly to a senior position. She joined the government in 1982 as a doctoral (Psychology) student with the Public Service Commission. After a year and a half, George returned to university to complete her Ph.D. exams, and then spent two years in policy development with the Ministry of Universities, Science and Communications. She left to take a position as a Manager in Mental Health Services, Ministry of Health. George was then seconded to work on the Premier's privatization program and, from there, returned to a management position with the Science and Technology Program of the Ministry. In September, 1988, George was appointed Director of the Science and Technology Division.

George gives much credit for her ability to manage the Division effectively to her staff and her superiors. "I feel very lucky," she commented, "to have experienced staff that work well together, and a Minister and Executive Committee who are fully committed to the development of well defined science and technology policies."

George has a responsibility to ensure that these policies are implemented effectively. Policies include the development of technology with export potential, protection and improvement of natural, man-made and cultural environments, encouragement of basic and applied research, strengthening the science and technology components at all levels of the educational system, and communicating the benefits of science and technology to the general public.

Through its communication with the public, George's Division is changing the attitude of young people, particularly girls, about the need to continue their studies in science and math throughout their education. Programs, such as the 'Scientists in the Schools' program, are reinforcing this message, and George feels that parents recognize that their children's future depends on keeping all options open.

"Children also are now realizing that math and science can be fun, and that it's okay to like them," George concluded.

George's enthusiasm for the area she is responsible for is indicative of the attitude that has ensured the upward development of her career. She is, indeed, a role model for girls and women considering careers in science and technology. ▼

School for Scientific Entrepreneurs

Each year, the Canadian Centre for Creative Technology runs the Shad Valley Summer Program, a "school for scientific entrepreneurs." Talented students in Grades 11 and 12 gather at eight Canadian universities, including the University of British Columbia, to develop creativity in engineering and business skills. Professors work with students in an informal setting to introduce new concepts in math, computing, engineering and entrepreneurship.

This summer's program runs from June 25 to July 22. For further information, contact the Centre at 8 Young Street East, Waterloo, Ontario, N2J 2L3 (phone: 519-884-8844). ▼

SCWIST Publishes Workshop Guidebook



With support from the Women's Secretariat and other government, community and education organizations, the Society for Canadian Women in Science and Technology (SCWIST) has sponsored Girls in Science and Technology workshops during the past five summers. The purpose of the workshops was to make science and math less intimidating, and to show girls that "it is okay for women to plan careers in science and technology". Extremely well received, these workshops have given girls, from ages nine to 12, some practical experience in activities involving physics, chemistry and biology.

Now the members of SCWIST are making their expertise in planning and conducting workshops available to other groups. They have recently published an

excellent guidebook called *Imagine the Possibilities . . . : Girls in Science Workshop Activities*, edited by Louise Hudson.

The book includes guidelines for teaching girls in science and explains how to set up the workshops. It provides all the details needed to organize and carry out such activities as maintaining a bicycle, making a concrete flower pot, understanding electricity and learning about wood bugs. Each activity is thoroughly explained and comes complete with quizzes and games. The clarity of content and clever illustrations make the guidebook a joy to use.

Copies are available from SCWIST, P.O. Box 2184, Vancouver, B.C. V6B 3V7. Please enclose \$5.00 for handling and mailing. ▼



PRIME TIMERS

Physicist Promotes Her Field

Betty Howard of Vancouver recently retired from the University of British Columbia as an assistant professor of physics—a field that women rarely enter. After coming to Canada from Britain in 1953, she spent 35 years contributing to research in the Physics Department and encouraging others, especially women, to enter her field. Now in her retirement, Howard continues to do both.

"During my last five years at the university, I worked as part of an international, nuclear research group centred in Geneva, and I'm still quite involved with that," she said. "I have also been helping the Open Learning Agency set up tutoring for its physics program—a project I enjoy because the students are so keen."

Howard is an active member of the Society of Canadian Women in Science and Technology (SCWIST), an organization dedicated to increasing the numbers and status of women working in science, engineering and technology.

She would love to see more women in physics.

While studying at a women's college in England, she was the only student in her year doing honours physics. She was also a "group of one" during most of her years at UBC's Physics Department.

"I really don't know why there aren't more women in physics," she said. "Half the students studying the introductory course at UBC were women, and they did just as well as the men. Half of the top ten students in the physics class were women. However, few of them seem to take up physics as a career. I hope that will change with time."

Meanwhile she is helping SCWIST encourage girls' interest in physics. "The society tries to reach girls while they are just young to increase their involvement in the sciences," she said.

Howard plans to put aside some time to learn more about French history and France—a country that has long held her affection. However, her thoughts keep returning to science: "I'm following the developments at Science World with great interest," she said. "Perhaps I can help out there." ▼

WE SALUTE

B.C.'s Female Recipients of Canada Scholarships
Beginning with the 1988-89 academic year, the federal government is awarding 2,500 Canada Scholarships annually to outstanding students who are starting university-level programs in math, science or engineering. Of the 184 scholarship winners in B.C., 99 are women. Congratulations to them all.

B.C.'s Women Members of Parliament and Federal Cabinet Ministers
During the last federal election, six B.C. women won seats in the House of Commons. Two of these women later received Cabinet positions:

- Dawn Black, New Westminster-Burnaby

- Kim Campbell, Vancouver Centre, Minister of State for Indian Affairs and Northern Development
- Mary Collins, Capilano-Howe Sound, Associate Defence Minister
- Lynn Hunter, Saanich-Gulf Islands
- Joy Langan, Mission-Coquitlam
- Margaret Mitchell, Vancouver East

The Women's Secretariat wishes to congratulate women who have received formal recognition for their career achievements, or who have exhibited extraordinary initiative in pursuing their studies. If there are women you feel should be included in this section in future issues, please let us know. ▼

Scholarships for Math and Science Students

Major scholarships are available to students specializing in the study of math and science at post-secondary institutions in B.C. The federal government awards Canada Scholarships to high achievers studying engineering, applied sciences, math, physical sciences, agriculture or biological sciences through a university or university transfer program. At least half of the scholarships go to academically outstanding women to encourage greater female participation in scientific and engineering fields.

Other major scholarships include the Jack R. Langstaffe scholarships for engineering studies (University of British Columbia); the P.D. McTaggart-Cowan scholarships in biology, chemistry, math and physics (Simon Fraser University); and the Paul Cote scholarships in engineering science (SFU).

For information about these, and other science and math scholarships, contact a scholarship representative at the school district, university or community college nearest you. ▼

Software

Breaking the Barriers is a new software and information kit designed to encourage girls (Grades 3 to 7) in the study of math and

science, and in the use of computers. The kit includes educational game software with an instruction manual and classroom activity sheets, a bibliography of computer literacy publications for young people, a list of resources such as workshops and videos,

and more. The software is suitable for use on computers in the Apple II series and on IBM PCs. For more information, contact Software Training Associates, 311-1020 McKenzie Avenue, Victoria, B.C., V8X 3Y1, (phone: 479-8220).

Believe it!

- Jobs in the fastest growing and most highly paid employment sectors require a background in science or mathematics.

- Most science and math teachers in Canada are male.
- In a study of the math and science proficiency of 13-year-olds in five countries and four provinces, British

Columbians ranked first in science and third in math. Girls did as well as boys in math but did slightly less well in science.

The number of jobs in the fields of math and science is increasing, and many of these jobs are offering exciting work and good pay. Although women continue to be underrepresented in math and science careers, their numbers are growing, and their successes are becoming increasingly evident.

The Women's Secretariat interviewed just a few of the women in B.C. who have developed careers in math and science. All of them have excellent training and experience; all of them expressed enthusiasm for their work. Here is what they had to say:

Terry Thomas, cancer researcher

"I enjoy doing scientific research. Cancer research is great because it's totally justifiable—in everyone's mind—and I can see how it might benefit many people in the near future."

Thomas graduated from UBC with a B.Sc. in cell biology. She also earned her Ph.D. in botany oceanography from UBC. Under a three-year, post-doctoral fellowship from the National Science and Engineering Research Council, she worked at the Royal Roads Military College laboratory, studying how plants absorb and withstand toxins and trace metals from ships.

Because of her broad background in the pure sciences, such as biochemistry and physiology, Thomas was able to move into the field of health research. Today, she is working as a post-doctoral fellow at the Terry Fox Laboratory for the B.C. Cancer Research Centre in Vancouver. She is researching treatments for leukemia—specifically studying bone marrow transplants and how more patients can benefit from them. Thomas is especially excited about her research into these treatments because they have the potential to provide a total cure.



Barbara Leslie, conservation officer

"I get a lot of satisfaction out of my job. I often work long hours and long weeks, but I feel I am helping to save something for the future."

As a graduate of Lethbridge Community College with a diploma in renewable resource management, Leslie studied topics ranging from forestry and fisheries to range management and air photo interpretation. She has also had special training in a variety of areas such as rescue work, firearm use and law enforcement. She has worked as a park ranger for Alberta Recreation and Parks, and as a park warden for Parks Canada.

Since 1987, Leslie has been the only female conservation officer in the B.C. Ministry of Environment. Working from her office in Squamish, she investigates wide-ranging violations of environmental legislation concerning the use of pesticides, and the management of waste, air, water, fisheries and wildlife. She also works with students, community groups and the public in preventing violations in the first place.



Tasoula Berggren, mathematician

"I especially enjoy working with students, teaching them math and helping them realize their potential. I am thrilled to see more girls taking math now—and more mature women returning to study math."

After completing a teacher training program in her native Cyprus, Berggren won a Fulbright Scholarship to do a B.A. in math at the University of Washington. Later she completed an M.Sc. in math at Simon Fraser University. For 10 years, she has worked in the mathematics and statistics department at SFU as an instructor and as a coordinator of a calculus and linear algebra workshop.

Berggren became concerned that few girls were studying calculus and other math, so she organized a "Women Do Math" conference for female secondary school students. The response was so strong that the conference has become an annual event. This year it will be held on November 16.



Coreen Hamilton, analytical chemist

"My work gives me the opportunity to see a research project through—from start to finish, and on to application. I can work on problems that are not just theoretical, but that relate to everyday lives."

Hamilton earned a B.Sc. in chemistry from McGill University and a Ph.D. in analytical chemistry from the University of Alberta. Since 1976, she has been involved in industrial and scientific research, and in teaching. Much of her work experience has been in the petroleum industry where she developed methods for analyzing heavy oil, bitumen and oilfield brines.

Today, Hamilton is the manager of analytical services for Seakem Oceanography in Sidney. Specializing in chemical monitoring, she has been responsible for establishing a laboratory for hazardous contaminants. She also teaches at the University of Victoria where she is an adjunct associate professor in the Chemistry Department.



Alison Nicholson, research ecologist

"My job is what I make of it. I can challenge myself and keep learning. That's important to me. If I stopped learning, it wouldn't be fun any more."

Nicholson earned a B.Sc. in biology at UVIC, and she is now completing an M.Sc. in forest science from Oregon State University. She has worked for eight years with the Research Branch, Ministry of Forests in Victoria. Through her research, Nicholson is studying the effects of competition among plants. She is learning just how the competition for moisture, light and nutrients affects seedlings. She is also working with her colleagues on a province-wide ecosystem classification program.

Every Saturday morning, Nicholson introduces a "plant of the week" to CBC Radio listeners. Her program is lively, informative and fun. She explains how to identify each plant and talks about its special features. She also presents what she calls "cocktail facts"—any fascinating folklore surrounding the plant or any unusual uses for it. For many British Columbians, Nicholson makes botany come alive.



Karen Koncohrada, economist

"It's satisfying to be able to take abstract skills in math and econometrics, for example, and apply them to real life situations—to define options for solutions and then evaluate those solutions. I feel that what I do is real. It affects jobs, lives and the natural environment, and it gives me a chance to make a good contribution."

When she graduated from the University of Calgary, Koncohrada received her B.A. in economics with an emphasis in econometrics, statistical theory, public policy and resource economics. She went on to the University of British Columbia to complete her M.A. in the Programme in Natural Resource Economics.

In 1979, she joined the energy group in the Ministry of Economic Development, moved into the forests and fisheries groups, then joined a branch dealing with resource sectors and land use. To broaden her experience, she took economist positions in the Ministry of Lands, then in the Ministry of Energy, Mines and Petroleum Resources where she is now. As Acting Director of the Mineral Policy Branch in Victoria, Koncohrada examines all aspects of government mineral policy and the ways it affects mining activity. She also studies how other policies, such as transportation and taxation policies, affect mining.



Carole Leadem, tree physiologist

"Being a scientist fits the kind of person I am. My work is intellectually stimulating and diversified, and I feel that I am making a contribution."

Leadem graduated from the University of California Berkeley with a B.Sc. in botany and from UBC with a Ph.D. in plant physiology. She is the most senior female research scientist in the Ministry of Forests. Since 1978, she has worked for the Research Branch in Victoria, focussing on forest regeneration, particularly on tree seed research. Her efforts have improved the performance and returns from seeds sown in nurseries. She is the technical advisor for the province on matters relating to cones and seeds.

Leadem also trains cone collectors and seed handlers in B.C. and other provinces. She gives seminars and lectures to professional foresters who are upgrading their skills and to graduate students at UVIC.

As a member of the Society of Canadian Women in Science and Technology, and the Victoria School Board's Advisory Committee for Co-op Education, Leadem is working to encourage more girls to enter fields that are non-traditional for women.



Diane Ingraham, research engineering scientist

"I'm a perpetual student. I like my work because it gives me lots of opportunities to learn. I am able to take my research and go as far as I want with it."

In 1980, Ingraham was the first woman to receive a Ph.D. in civil engineering from UBC. Before that, she graduated from Dalhousie University with a B.Sc. in physics and from the Massachusetts Institute of Technology with a Master's degree in engineering.

Her job experience is varied. She worked as a research assistant in the Coastal Oceanography Division at the Bedford Institute of Oceanography in Nova Scotia. She taught a graduate program for water resource planners at the Simon Bolivar University in Caracas, Venezuela. Then, over a six-year period, she worked with three hi-tech Canadian firms: MacDonald, Dettwiler and Associates in Richmond, Canadian Astronautics Ltd. in Ottawa, and Vertigo Computer Imagery in Vancouver.

Now, as an associate professor of engineering science at SFU, Ingraham is developing neural-network computers (computers that can think) and flexible manufacturing systems for a variety of B.C. industries. She is also helping to design the laboratory facilities to teach manufacturing and robotics in SFU's new applied sciences building. Although she doesn't have much time for teaching, Ingraham is giving a creative, project-oriented course in which students design a device that allows a severely disabled musician to play an electronic synthesizer with a band. *Cont. on Page 6*



Women Excelling in Math and Science Careers...

Louise Ouellet, civil engineer

"I really have a chance to accomplish something in my work—to serve the public and protect the environment. 'Special waste' is a brand new, challenging area, and it gives me a chance to be a pioneer."

Since Ouellet graduated from UBC with a Bachelor's degree in applied science, she has been working with the Waste Management Branch of the Ministry of Environment. She practised municipal and industrial engineering in Williams Lake and Kamloops before moving to the Environmental Safety Program in Surrey.

In dealing with the problems of special waste, Ouellet heads a team that oversees proper management of hazardous wastes and administers the new Special Waste Regulation. She helps to investigate complaints of environmental problems such as spills and contaminated sites. Ouellet is the only woman engineer working specifically in the Environmental Safety Program. ▼



Turning the Spotlight on Science

"Science and technology touch our lives every day," said Barbara Brink, President of the Board of Governors of Science World. "We need to understand more about them. We need an interactive place which educates and entertains—a place where our children, and we ourselves, can discover the wonders of the arts, sciences and technology surrounding us. That is what Science World is about."

With funding from all levels of government and private sponsors, the Expo Centre in Vancouver is being converted to create a world-class science centre. Within its 9,000 square metres of space, Science World will have a large hall for hands-on exhibits, a centre for live demonstrations and special events, the largest Omnimax theatre in the world, and several galleries.

Science World is being developed by the Arts, Sciences and Technology Centre Science World Society, a non-profit organization formed in the early 1980s by the Vancouver Social Planning Department and the Junior League of Vancouver. A founding member of the Society, Barbara Brink is the current president. She spearheaded the campaign to obtain the Expo Centre as the permanent home for Science World. She also came up with the idea of creating a science centre in the first place.

"A family holiday helped the idea to take shape," said Brink. "I had been thinking along the lines of a major project for children, then I had the experience of seeing the Ontario Science Centre with my young sons. I was amazed by their reaction. They were truly excited by science—a subject that had held no interest for me when I was their age."

Later, she became concerned by research that claimed 80% of all children lose interest in science by the eighth grade; yet half of all new jobs arising during the 1990s are expected to be in new industries. Brink was convinced that a science centre could help interest young people in a field that is becoming increasingly important to their future.

The original Arts, Sciences and Technology Centre opened in 1982 in downtown Vancouver. Over the years, it attracted more than 600,000 visitors, 45% of which were children. Through its Outreach Program, the Centre's travelling exhibits reached another 400,000

people in more than 50 communities in B.C. and the Yukon.

The Expo Centre was renamed Science World, and opened for a special preview presentation, "The Dinosaurs!" in the summer of 1988. Then it closed for construction. The grand opening is scheduled for May, 1989, the same month that Brink becomes one of two people recognized by the Canadian Council of Children and Youth, and by the Society for Children and Youth of B.C. She will be honoured for her innovative work with children and science. ▼



Ministry of Forests

The Ministry of Forests' Women's Programs is responding to the needs of women in the Ministry as identified in a pilot needs assessment conducted last year. Respondents suggested a News Bulletin for communicating throughout the Ministry, and the first issue was published this January.

The needs assessment also reinforced the need for more "Taking Charge of Your Career" courses. Five Ministry employees attended the recent training session for facilitators held in Victoria. The Ministry now has seven trained facilitators and will welcome requests to Harry Powell from other ministries for seats in courses held in regional locations.

The Steering Committee has been reorganized to include representatives from each of Forests' six regions who will alternately rotate into the monthly meetings. This new arrangement will allow the Regions to be more involved in Women's Programs and ensure there is a regional perspective to Women's Programs activities.

Ministry of Energy, Mines, and Petroleum Resources

The Women's Program Committee is in the process of being recreated after a one-year period of inactivity. Topical issues and the Ministry's action plan will be foremost on the agenda of the first meeting.

The Ministry Women's Advisor attended a recent Executive Committee meeting. Action plan implementation was discussed, and a specific commitment of funds for staff training and development for women was made. An enthusiastic Ministry Executive Committee makes the future look exciting.

Cont. on Page 8

ADVISORS PAGE

Women's Advisors

Deborah George , Director, Science and Technology, Advanced Education & Job Training, and Ministry Responsible for Science and Technology	387-2033
Marney James , Vegetable Specialist, South Coast Region Agriculture & Fisheries	576-2911
Marg Sorenson , Manager, Policy, Planning & Evaluation Court Services Attorney General	356-1543
Roy Emperingham , Director, Management Operations Education	356-2350
Linda Stewart , Executive Secretary Energy, Mines & Petroleum Resources	387-1916
Bill Bell , Executive Director, Administration & Support Services Division Finance & Corporate Relations	387-3989
Harry Powell , Manager, Human Resources Forests	387-8752
Margaret Marriott , Director, Benefits & Policy Superannuation Commission Government Management Services	387-1002
Vel Clark , Director, Staff Development & Safety Programs Health	387-2581
Bev Hayley , Personnel Officer International Business & Immigration	356-8162
David Anderson , General Manager, Liquor Distribution Branch Labour & Consumer Services	254-5711
Joan Barton , Legislative Librarian Legislative Assembly, Hansard, Sergeant at Arms & Caucus	387-6500
Pauline Rafferty , Executive Director, Management Services Municipal Affairs, Recreation & Culture	387-3153
Jan Hemming , Manager of Administration, Office of the Premier Premier's and Ministers' Offices	356-8248
Kathleen Mayoh , Assistant Deputy Minister, Management Services Regional Development	387-0757
Nadine Derick , Operations Assistant Crown Lands	387-1284
Gyl Connaty , Manager of Administration, Water Management Branch Environment	387-3532
Iris Fenwick , Personnel Clerk, South Coast Region Parks	929-1291
Kelly MacKenzie , Executive Secretary Native Affairs	387-5393
Dyan Dunsmoor-Farley , Manager, Policy, Planning & Legislation Social Services & Housing	387-4421
Wendy Galloway , Project Director, Corrections Branch Solicitor General	387-5059
Ardath Paxton-Mann , Public Affairs Counsel Tourism & Provincial Secretary	387-0082
Sharlie Huffman , Design Engineer, Bridge Branch Transportation & Highways	387-5264
Mary Martin , Manager, Employee Development Services B.C. Systems Corporation	389-3211

Women's Advisors have been appointed in each Ministry and one Crown Corporation to advise Government on issues affecting women within the Public Service.

Math and Science Careers...

Employment Equity News from B.C. Systems Corporation

On December 2nd and 3rd, 1988, a workshop entitled "A Planned Approach to Employment Equity at B.C. Systems" was held for all members of the Corporation's Employment Equity Steering Committee.

The main question before the group was, how do you really manage diversity and value the differences that are forecast to be part of the workforce of the future? The clear message was that this is just the beginning!

Using a variety of techniques, participants explored workforce trends, barriers creating workforce disadvantages, and employment systems—particularly the recruitment and selection process.

The current goals of B.C. Systems are to gather demographic information and raise awareness about the underlying concepts of employment equity.

Ministry of Solicitor General

On November 28–30, 1988, the Corrections Branch Women's Programs Committee presented the workshop, "Women: The Future of Corrections in the 90s". Approximately 80 women attended, representing all classifications in the Corrections Branch and all areas in the province.

Day One focused on where women are *now* in Corrections, and included a debate on affirmative action; workshops entitled "Preparing for

that Career Change", "Institutional Challenges for Women", and "Causing Change: The Hidden Secrets"; and an address by Jim Graham, Assistant Deputy Minister, on the Branch's commitment to women and their role for the future.

Keynote speaker Bonita Thompson, Q.C., a practising lawyer with the firm of Singleton, Urquhart, started Day Two's Future Focus which included workshops covering financial planning, goal setting, and super woman/imposter issues. David Bahr, Regional Director of Corrections, Vancouver Metro Regional Office, closed the workshop. Ninety-three per cent of the participants rated the workshop as "very good" and "excellent" with the recommendation that it be an annual event. ▼

Career Development Opportunity

A training initiative intended to address the under-representation of women at senior levels of management begins March 23, 1989.

Noon-hour seminars will be held every second Thursday on topics relating to central agency functions, committee organization and executive recruitment. The seminars will be led by the most senior women in government, including the five female Assistant Deputy Ministers.

Because of space restrictions, enrollment in the seminars is limited to women managers level 3 and up, but all sessions will be videotaped so that women at all levels, and in all regions of the province, will have access to this training. ▼

BULLETIN BOARD

Recommended Reading

The IDEA Book: A Resource for Improving the Participation and Success of Female Students in Math, Science and Technology, Heather-jane Robertson. Canadian Teachers' Federation, 1988.

Science Council of Canada's 1984 challenge to encourage girls in the study of science, technology and mathematics has been taken up by education ministries, school boards, teachers and others across the country. A number of innovative projects are the result. The Canadian Teachers' Federation has compiled descriptions of many of these projects in **The IDEA Book**. It also includes lists of contacts by subject area. The Federation produced this book to "serve as a catalyst for information exchange among teachers and to enrich the quality and quantity of scientific education for female students."

Girls and Science: A Better Deal; A Resource Pack for Science Teachers, Institute of Physics and Education. London, England, 1984.

Girls and Science is intended to make teachers more aware of the under-representation of girls in the sciences and possible causes of this under-representation. It is also intended to help teachers think of ways to improve the situation. The resource pack is one result of the recommendations in **Girls and Physics**, a 1982 report by the Joint Physics Education Committee of The Royal Society and the Institute of Physics in England. The pack includes a study guide, a copy of **Girls and Physics**, and a set of support sheets, including activities and bibliographies.

Upcoming Major Events

Women and Economic Strength/The Economy and Your Future

(Training Seminar)
Date: April 13 and 27, 1989
Place: 838 Fort Street, Victoria
Sponsors: Women's

Secretariat, Camosun College and Zonta International
Contact: Susan Janett or Wendy Shaw, 356-8066

Equality Four Years Later (Conference)

Date: April 14–15, 1989
Place: Robson Square, Vancouver
Sponsor: West Coast LEAF Association
Contact: Janet Kee, 684-8772

Videos

Here Today . . . Where Tomorrow?

Prepared for the Ontario Women's Directorate, this docudrama targets the female high school audience. It can be used to guide students in the initial stages of career preparation. It encourages them to keep their options open by continuing their studies in math and science. The career development docudrama is broken into several segments by short clips of students—both male and female—discussing some of the issues it raises.



Name _____
Organization, if applicable _____
Address: _____
City: _____ Province: _____ Code: _____
Number of copies requested: _____

The Women's Secretariat Newsletter is designed to increase awareness of women's issues and is available free on request.

To add your name to the mailing list for the Newsletter, contact:

The Women's Secretariat,
Parliament Buildings, Victoria,
B.C., V8V 1X4. Phone 387-3600.

If you have changed your address, please notify us and return your old address label.

We welcome letters to the editor, story ideas, photographs, and pertinent news from your community.