



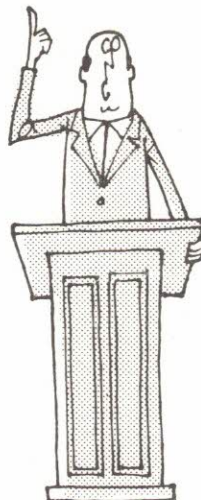
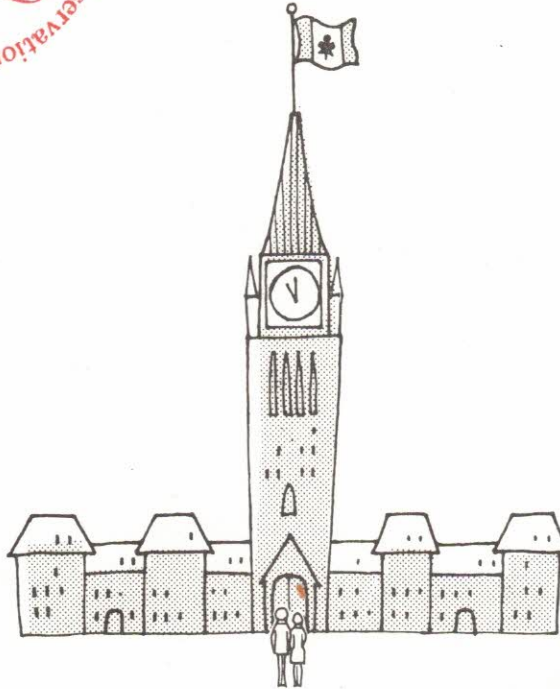
Canadian Nuclear Society  
Soci t  Nucl aire Canadienne

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CNS  
**BULLETIN**  
SNC

Vol. 2, No. 1

April/Avril 1981



The CNS Bulletin is the membership newsletter of the Canadian Nuclear Society.

*Le Bulletin SNC est l'organe d'information de la Société Nucléaire Canadienne.*

CNS provides Canadians interested in nuclear energy with a forum for technical discussion. CNS is forming branches in major Canadian cities, and has established four technical divisions. For membership information, contact the CNS office, a member of the Council, or local branch executive. Membership fee is \$20.00 annually.

*La SNC procure aux Canadiens intéressés à l'énergie nucléaire un forum où ils peuvent participer à des discussions de nature technique. La SNC est en train de mettre sur pied des groupes régionaux dans les principales villes canadiennes, et a créé quatre divisions techniques. Pour tous renseignements concernant les inscriptions, contacter le bureau de la SNC, les membres du Conseil ou les responsables locaux. La cotisation annuelle est de \$20.00.*

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# CNS BULLETIN SNC

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1. EDITORIALProgress Begets Change

As the first anniversary of publication of the CNS Bulletin approaches, it is time to take stock of what the Bulletin is and what it ought to become.

The Bulletin began as a simple newsletter intended to convey to the membership a few gleanings of information from the business of the newly formed CNS Council. Now that the CNS has established local branches and technical divisions and has become involved in the organization and co-sponsorship of conferences and seminars, we have found it necessary with this issue to introduce separate Departments to deal with the growing activity in each of these areas. Moreover, it will be necessary to involve an editor who will be able to devote the increased time demanded by our growing organization.

Therefore, with this issue, I will be relinquishing my role as acting editor of the CNS Bulletin so that I may devote more time to the other communications needs of the Society. High on my list of priorities is the establishment of a Journal of the Canadian Nuclear Society and a committee to define the unique role for the CNS in public information.

We shall be announcing the name of the Editor of the CNS Bulletin in the next issue. In departing, I hope that the executives of the Local Branches and of the Technical Divisions will arrange to continue contributing news of their vital activities to the new editor on a regular basis. I also hope that all CNS members will assume an open invitation to submit articles whether informative or opinionated! (Or both!)

Finally, I hope that every CNS member will make every effort to attend the CNS Annual Conference on June 10. As you will find in the remaining pages of this Bulletin, the program is exciting and timely. Besides, Ottawa in June is a pleasant time to meet with new and old friends.

John S. Hewitt,  
Chairman, Communications.

## 2. SECOND ANNUAL CNS CONFERENCE

The major annual event of the Canadian Nuclear Society will take place this year at the Skyline Hotel in Ottawa on Wednesday, June 10, 1981. All CNS members are urged to participate in the program which includes sixty-six technical papers, an outstanding luncheon address and a panel discussion. The detailed preliminary program is enclosed.

Members wishing to become fully up-to-date on Canada's contribution to world energy supply may wish to arrive in Ottawa two days early to attend the Twenty-first Annual Conference of the Canadian Nuclear Association on June 8 and 9, for which the program is also enclosed.

The special guest program associated with the conference no doubt will be of interest to the families of conference attendees, thus providing the opportunity for a memorable visit to Ottawa.

### 2.1 Technical Program

Dr. Frank McDonnell, the Chairman of this Second Annual CNS Conference has indicated that over sixty technical papers covering many aspects of the nuclear industry, will be presented. While the majority of authors are from the nuclear industry in Canada, a number of papers originating in other countries will be presented. The full CNS technical program including paper titles, authors and times is provided with this issue of the Bulletin. Summaries of the papers will be available at the conference and the full text of the papers will be published in October as Volume 2 of the Proceedings of the Canadian Nuclear Society.

### 2.2 Milton Levenson - Guest Speaker at CNS Luncheon

The program highlight of the conference will be the luncheon address on "Realistic Estimates of Consequences of Nuclear Accidents" to be given by Milton Levenson, recent Director of EPRI's Nuclear Division and now of Bechtel Power Corporation. Mr. Levenson has broad experience in the U.S. nuclear industry ranging from fuel reprocessing to fast reactors and served as chairman of the Internal Reactor Safety Review Committee.

The closing plenary session of the conference features a distinguished international panel who will discuss long term disposal of nuclear waste fuel.

### 2.3 CNS Annual Meeting

The second annual general meeting of the CNS will be held immediately following the luncheon. The main items of business will be the President's Report and the announcement of the newly elected Council members for the year 1981-82.

## 2.4 Guest Activities at CNA/CNS Conferences

The guest program spans the three days (June 8-10) of the combined CNA/CNS Conferences.

On the first day (June 8), there will be a panel discussion on the role of women in the Canadian nuclear industry. The panelists are: Lyse Morrissette, Atomic Energy Control Board; Cynthia Coulter, Atomic Energy of Canada Limited; Lydia Dotto, freelance science writer; and Solange Plourde-Gagnon, a Commissioner for the Ontario Royal Commission on Electric Power Planning.

The second-day program includes a session with energy consultant Sandra Keifer, whose lecture is entitled "U.S. Experience: Women for Nuclear Energy". Ms. Keifer was a member of a team which engaged actress Jane Fonda in debate during Miss Fonda's anti-nuclear campaign in the United States.

Available for guests on the third day will be a tour of AECL's Radiochemical Company, which manufactures cancer therapy machines, facilities for sterilizing medical supplies, and radioisotopes used here and abroad. (The spouses of conferees attending only the CNS Conference [June 10] are also welcome to register for this tour.)

As well as these three events, historical and scenic tours of the Ottawa area have been arranged. Organizers are also arranging a visit to Parliament Hill and tea with such prominent Canadians as Lily Schreyer. For further information on the Guest Program, please contact:

Cynthia A. Coulter,  
Nuclear Energy Information Centre,  
55 Bloor Street West,  
Toronto, Ontario.  
M4W 1A5

Telephone: (416)961-4434

## 2.5 Registration

CNS members and others planning to attend either the CNS Conference (June 10) or the combined CNA/CNS Conference (June 8-10) are urged to register well in advance using the blue registration and ticket order form provided with this issue of the CNS Bulletin.

For those attending only the CNS Conference, the \$55 (early) registration fee includes the luncheon, the technical program and the book of summaries provided at the conference, as well as the full CNS conference proceedings (Proceedings of the Canadian Nuclear Society, Volume) to be forwarded with no further charge to CNS registrants in October 1981.

For those attending the CNA program, the CNS program is automatically included except that, in this case, the CNS Conference Proceedings will be forwarded only if specifically ordered at the additional fee, as indicated on the blue form.

### 3. NOTICE OF SECOND ANNUAL GENERAL MEETING OF CNS

The 1980-81 Council of the Canadian Nuclear Society wishes to give advance notice of the Second Annual General Meeting of the Canadian Nuclear Society. The meeting will be held at the Skyline Hotel, Ottawa, on Wednesday, June 10, 1981, at about 1:15 p.m. All CNS members are urged to attend. A tentative agenda includes:

1. Adoption of the Minutes of the First Annual General Meeting
2. The President's Report
3. Induction of the Councilors for 1981-82
4. New Business

### 4. CNS BRANCH NEWS

#### 4.1 The Manitoba Branch -- First!

The Manitoba Branch of the Canadian Nuclear Society is the first branch to be established in the short history of the CNS. After preliminary meetings in both Winnipeg and Pinawa, the Branch formation was formally approved by the CNS Council at its meeting of January 30, 1981. (Fred Stock of Manitoba Hydro addressed the Winnipeg meeting on "The Future of Nuclear Power in Manitoba".)

The first meeting of the newly formed branch was attended by 22 in Winnipeg on February 23. The feature presentation was by John Boulton of Whiteshell Nuclear Laboratories on "Nuclear Fuel Waste Management in Canada". The five non-members attending for the purpose of making "the CNS aware of concern about nuclear power" assured a lively question and answer period.

The members of the executive group of the Manitoba Branch are Ernie Cord, Chairman; Kishor Mehta, Vice-Chairman; Chuck Purvis, Secretary-Treasurer; and Fred Stock, Membership Chairman.

The next meeting of the Manitoba Branch is scheduled for early April.

#### 4.2 Ottawa Branch Formation

The Ottawa Branch of the Canadian Nuclear Society, although not yet formally constituted, has undertaken an admirable program of technical meetings. On February 4, Ron Hodge of Atomic Energy of Canada Limited, addressed a group of thirty on the "Canadian Coast-Guard's Nuclear Ice-Breaker Project". On March 4, twenty people enjoyed a presentation by Bob Lynam of Energy, Mines and Resources on "Canada's National Energy Program".

Two further meetings are scheduled to be held in the Officer's Mess of HMCS Bytown:

April 9, 1981	"SLOWPOKE-III" John Hilborn Chalk River Nuclear Laboratories
May 13, 1981	"Possible Improvements to Uranium Mill Processing" J. Raicevic and G. Ritcey CANMET

For further information, please contact J. Howieson (613) 995-9351, or Ralph Green (613) 236-6444.

#### 4.3 Branches Proposed for Montreal and Toronto

Meetings for the formation of CNS Branches have been held recently in both Montreal and Toronto, and the CNS Council expects to consider formal proposals for branches in these areas at its April meeting. The Chairman of the Branch Executive in Montreal is to be Jan Charuk, while in Toronto the Chairman is Arthur Guthrie. Other members of these executive groups have been identified and will be announced in a later issue of the Bulletin.

### 5. TECHNICAL DIVISIONS NEWS

The four Technical Divisions of the CNS are now well established. Most members have communicated their selection of two of these technical divisions, thus allowing an initial breakdown in the technical interests of the membership. The four divisions are:

- A) Nuclear Science
- B) Design and Materials
- C) Mining, Manufacturing and Operations
- D) Environment Health and Public Affairs

We were very pleased that this breakdown showed a reasonably even distribution among divisions: A) 26%; B) 35%; C) 15%; and D) 24% (as of March 2, 1981).

In producing a functioning divisional organization so quickly, thanks should go to the organizing committees:

A) Nuclear Science Division

W. Paskievici, Chairman  
 R. Bonalumi, Vice-Chairman  
 J. Pauksens  
 J. Griffith  
 R.E. Jervis, Secretary

B) Design and Materials Division

T. Gellatly, Chairman  
 P. Stevens-Guille  
 W. Clendenning  
 G. Taylor

C) Mining, Manufacturing and Operations Division

J. Howieson, Chairman  
 D. Gray  
 D. Patterson  
 R. Lewis

D) Environment, Health and Public Affairs Division

T. Drolet, Chairman  
 E. Rossinger - tentative  
 L. Dotto - tentative

Please retain this list of committee members so that you may communicate with them your suggestions on the programs of the technical divisions. The divisions may also assist in planning the technical programs of the CNS Branches.

J. Howieson - Technical  
 Program Chairman



## 6. MEMBERSHIP

### 6.1 CNS Membership List Soon Available

The editing of the CNS Membership list is complete and copies will soon be printed and mailed to members.

### 6.2 Membership Cards and Receipts

As the result of a recent decision of the CNS Council, all CNS Members are soon to receive a Membership Card and a receipt of payment of their 1981 membership fee. If you have not yet paid your \$20 Membership Fee (\$5 for students), please forward your cheque immediately. Although the due date was January 1, 1981, we will attempt to provide your receipt during April.

## 7. COMING EVENTS

### 7.1 CRPA Annual Meeting

The second annual meeting of the Canadian Radiation Protection Association will be held May 5 and 6, 1981, in Ottawa, at the Government Conference Centre (old Union Station). The program will include a broad range of papers on various aspects of radiation protection, presented in single (plenary) sessions.

An optional visit to the Chalk River Nuclear Laboratories of Atomic Energy of Canada Limited is planned for May 7. The fee for the conference, exclusive of the CRNL visit, will be \$25 for CRPA members, \$35 for non-members.

Further information can be obtained from D. Grogan, Chairman, Local Arrangements Committee, Radiation Protection Bureau, Health and Welfare Canada, Brookfield Road, Ottawa, Ontario, K1A 1C1 (telephone: (613) 998-4751).

### 7.2 Two-Day Symposium on the Treatment and Disposal of Hazardous Wastes\*

The two day symposium is sponsored by the Department of Chemical Engineering and Applied Chemistry, University of Toronto, and Oyez Limited, in association with the Canadian Society for Chemical Engineering, The Industrial Accident Prevention Association, the Canadian Nuclear Society,

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\* Co-sponsored by CNS.

The Department of Civil Engineering, and the Environmental Engineering Program, University of Toronto.

Title: THE TREATMENT AND DISPOSAL OF HAZARDOUS WASTES

Date: May 7 and 8, 1981

Place: Park Plaza Hotel, Toronto

Particulars: The purpose of the Symposium is to provide a forum for the presentation and discussion of views on the disposal and treatment of hazardous waste materials, presented by experts drawn from industry, government, university and consulting sectors. Recent events in which hazardous waste materials have caused environmental contamination serve to highlight the need for more careful disposal practices. The aim is to prevent adverse effects on environment and on human health and the repetition of incidents such as have occurred with mercury, asbestos, kepone, mirex, lead, radioactive wastes and PCBs. The Symposium is intended to appeal to those involved in the generation, treatment, transportation and disposal of hazardous materials, municipal and regional planning, the drafting of legislation and regulations, the underwriting of risks, and assignment of legal responsibility. For further information Professor M.E. Charles, Department of Chemical Engineering and Applied Chemistry, University of Toronto, Toronto, Ontario, M5S 1A4 ((416)978-4020), and Mrs. Lynn Arlett, Oyez Limited, 65 Queen Street West, Suite 2210, Toronto, Ontario, M5H 2M8 ((416)367-0672).

### 7.3 Workshop on Analytical Chemistry Related to Canada's Nuclear Industry\*

This Workshop will be held at St. Jovite, P.Q., on October 19-21, 1981. Abstracts for contributed papers should be received by August 15, 1981. For details of the overall program, please contact the Program Chairman:

R.M. Cassidy,  
Chalk River Nuclear Laboratories,  
Atomic Energy of Canada Limited,  
Chalk River, Ontario.  
K0J 1J0

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\* Co-sponsored by CNS.

## 8. CONFERENCE REPORTS

### 8.1 Eighth Annual Simulation Symposium on Reactor Analysis and Plant Control

This well established conference was held this year on March 17 and 18, at the University of Toronto, under the co-sponsorship of Atomic Energy of Canada, Ontario Hydro, the University of Toronto and the Canadian Nuclear Society. The thirty-odd papers presented were divided into two parallel sessions dealing with Reactor Physics and Thermal-hydraulics. Those attending the conference received the full texts of the conference papers. A limited number of additional copies of the Proceedings may be obtained by contacting the Symposium Chairman, Dr. Maurice Duret, Chalk River Nuclear Laboratories.

The Symposium Banquet was held in the Great Hall of Hart House at which the guest speaker, Bill Seddon of AECL, outlined the potential for the supply of Candu nuclear heat to industry.

Plans have been initiated for the 1982 Simulation Symposium in which the CNS is expected to continue its involvement begun this year.