

CHEMICAL PROCESS METALLURGY
THE ELLIOTT SYMPOSIUM

June 10-13, 1990 — Cambridge, Massachusetts

Please reply to:

LTV Steel Company
 Technology Center
 6801 Brecksville Road
 Independence, OH 44131
 Fax: (216) 642-7225

November 4, 1988

Organizing Committee
 Co-Chairmen:

P.J. Koros
 LTV Steel Company

G.R. St. Pierre
 Ohio State University

To: Organizing Committee

Committee Members:

D.H. DeYoung
 Alcoa
 T.W. Eagar
 MIT
 H.A. Fine
 University of Kentucky

R.J. Fruehan
 Carnegie Mellon University

D.R. Gaskell
 Purdue University

J.P. Hager
 Colorado School of Mines

S. Mehlman
 Union Carbide Corporation

J. Szekely
 MIT

As you may recall, at the August 30 meeting we discussed the use to which we would put funds collected by the solicitation we planned.

- The first, immediate reaction was to "pay down" registration fees and to create a fund to contribute support for "worthy" students interested in Chemical Process Metallurgy. To do this would require \$250,000 and, in reality, both the ISS-TMS committee charged with the selection of candidates and the nominating schools would face difficult dilemmas because the students who do not get funded (yet considered worthy of consideration) would have to scramble, on short notice, for other means of support—and be left with an empty feeling.
- George, Alan, and I used the GMTCP meeting at UM-R to examine the alternatives available to us. Alan suggested what appears to us a better approach: create a fund to support the travels of an "Elliott Lecturer" in Chemical Metallurgy. The annually (say) selected lecturer, like the Krumb Lecturer, would be expected to speak a certain number of times each year — preferably at college ISS/TMS/ASM sections and/or at a few regular section meetings. Such a selection would become an honor and the leveraging from exposure to the excitement of the field would be of greater long-term benefit than any other approach. (I was "recruited" to process metallurgy in this fashion by Don Hilty in 1953!)
- I discussed these alternatives with John Elliott, he strongly favors the lectureship.

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Iron and Steel Society Headquarters
 410 Commonwealth Drive, Warrendale, Pennsylvania 15086 • Tel. (412) 776-1587
 Telex 6503113507 MCI UW (via WUI) • FAX (412) 776-0430

- 2 -

Please offer your comments (and yea or nea) by return fax. I will discuss with the Executive Directors the practicalities and finances of the lectureship approach. In the final version of the solicitation letter we'll spell out our grand plan and give a target figure for our total need, leaving each recipient to judge "how much" is appropriate to contribute.

Sincerely yours,

P. J. Koros
Peter J. Koros
Co-Chairman *aw*

PJK/aw
AMW/1219

IRON & STEEL SOCIETY OF AIME

MINUTES

THE ELLIOTT SYMPOSIUM ORGANIZING COMMITTEE

FEBRUARY 27, 1989
11:30 AM--5:00 PM

Conference Room 9 - Second Floor
Las Vegas Hilton Hotel
Las Vegas, Nevada

1. INTRODUCTION AND WELCOME

Koros and St. Pierre welcomed the Organizing Committee.

2. STATUS REPORTS ON LOCAL ARRANGEMENTS

2.1 MIT - Little Kresge; Student Union

The Committee decided to hold the sessions in the Little Theatre (seats 214) with luncheons in the Student Center (Sala de Puerto Rico, Twenty Chimneys or the Mezzanine). In 1989, a nice sit down lunch would run \$15.00-\$20.00; a cold buffet will run between \$8.00 and \$10.00. Marge Meyer at MIT will make our reservations as soon as possible (July 1, 1989.)

2.2 Hotel

The attendees will be housed primarily at the Hyatt Regency in Cambridge. There may be overflow housing at the Howard Johnson's.

2.3 MFA - Dinner and Reception

Tuesday reception and dinner will be held at the MFA. The reception will be in the Rotunda and dinner will be in Hall of Tapestries.

NOTE: We are limited to 225 for dinner.

2.4 AISI Reception

The AISI Reception will be held on Sunday evening at the Hyatt Regency. The following arose:

- There will be no restriction on the number of members from the MIT faculty (and their wives). MIT will contribute \$5000 toward Symposium Expenses.

- Will students be invited to attend the symposium and its functions or will there be a reduced rate for students or will they pay the full rate?
(NOTE: The suggestion was made to open up registration for students 4 months before the conference.)

3. SPOUSES' PROGRAM

It was the consensus of the group that there would be no formal spouses' program. Spouses will be charged a ticket price to cover the cost of dinner and reception on Tuesday evening.

4. STATUS OF PROGRAM

4.1 Response from Authors

	<u>No Response:</u>	<u>Follow Up By:</u>
<u>Session I</u>	Nadkarni Mitchell	Koros St. Pierre

NOTE: Nadkarni abstract in; Mitchell eliminated.

<u>Session II</u>	Chang	St. Pierre/Gaskell
<u>Session III</u>	Bowen	Szekely
	Rapp	St. Pierre
	Hager/Hastie	Hagar
	Richards	St. Pierre
<u>Session V</u>	Meadowcroft	Koros

4.3 Program Changes

- Iguchi will have Ban-ya as a co-author.
- Tarasoff will not co-author with Mackey.

•Daily Schedule	(see attached)
Monday, Tuesday	
8:30 - 10:00	Papers A - C
10:00 - 10:30	Break
10:30 - 12:00	Papers D - F
12:30 - 1:30	Luncheon
1:30 - 3:00	Papers A - C
3:00 - 3:30	Break
3:30 - 5:00	Papers D - F
Wednesday	
8:30 - 10:00	Papers A - C
10:00 - 10:30	Break
10:30 - 12:00	Papers A - D
12:00 - 1:30	Lunch
1:30 - ?	Elliott Lecture

Problem Abstracts:

Vacuum Technology - Humbert should review with Blossey.

Slags - Sano; Gaskell will contact to clarify.

Process Dynamics: Liquid/Liquid - St. Pierre to contact Robertson for new abstract; after it is received all the abstracts from this session should be sent to the authors to avoid overlap.

5. SESSION CHAIRMEN ASSIGNMENTS

(see attached program)

6. ADDITIONAL VOLUNTEERS

Some of these were handled by adding sessions VI & VII. They are shown as session chairmen on the attached program.

7. STATUS OF SOLICITATIONS

7.1 Response Review

USX - \$10000
 Bethlehem - originally no; is reconsidering;
 another solicitation letter is being sent.
 Inland - \$5000 (\$2500 from Inland; \$2500 from Luerksen)
 Armco - \$5000
 National - originally no; St. Pierre will talk to them.
 LTV - Pledge \$?
 Stelco - Pledge \$? (5000 Canadian) (received \$5000 US\$)
 Chaparral - \$5000 pledge (for lectureship only)
 AISI - \$5000 - Sunday evening reception
 Lukens - \$2500
 Allegheny Ludlum - \$3000
 Linde - \$10000
 Alcoa - \$10000 Pledge (not firm)
 Reynolds - \$5000 Pledge (received \$3000)
 Carborundum - \$1000 Pledge (received \$1000)
 Teledyne Inc. - \$2000
 AB Tech - Pledge \$?
 Acme - no answer
 Lone Star - no answer
 Kerr McGee - no
 Timken - St. Pierre will contact Ron Widner.
 INCRA - no
 Phelps Dodge - no

North Star - Koros will contact Geiger (will pledge \$?).
 Kennecott - Szekely will contact David George.
 Teledyne Allvac - \$1000
 Sharon Steel - \$500
 BHP - no
 Dofasco - Pledge \$? (received \$1000)
 Air Products - no answer
 Air Liquide - no answer

7.2 Conflict with MIT Solicitation to Alumni

Koros explained that due to confusion and poor timing, MIT had solicited funds from MIT alumni. M. Flemings will discontinue MIT's efforts in lieu of organizing committee's solicitation.

8. ABSTRACT REVIEW

See comments in 4.3.

- All abstracts are attached again.

9. NEW BUSINESS

- Gaskell requested that in the author instructions we specify font, point and space size, and justification. McGrath will send sample publication (7th PTD proceedings) for his review.
- Koros and St. Pierre will formulate a cover letter to go with the author's kits.
- The first ad will begin to appear in the Iron and Steelmaker and JOM.
- McGrath will also put a meeting announcement in foreign journals.
- The first mailer will go out in October 1989. This should include a response card for more information.
- The final mailer will go out in January 1990.

Respectfully submitted,

Elizabeth M. McGrath

CHEMICAL PROCESS METALLURGY
THE ELLIOTT SYMPOSIUM

June 10-13, 1990 - Cambridge, Massachusetts

Please reply to:

Organizing Committee
Co-Chairmen:

P.J. Koros
LTV Steel Company
G.R. St. Pierre
Ohio State University

ISS Headquarters

June 20, 1990

Committee Members:

D.H. DeYoung
Alcoa
T.W. Eagar
MIT
H.A. Fine
University of Kentucky
R.J. Fruehan
Carnegie Mellon University
D.R. Gaskell
Purdue University
J.P. Hager
Colorado School of Mines
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Union Carbide Corporation
J. Szekeley
MIT

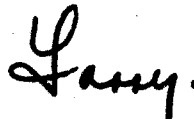
TO: The Elliott Symposium Organizing Committee

Gentlemen:

Enclosed are the proposed Rules for the Elliott Lectureship for your approval per our meeting of June 12.

Please return the Mail Ballot by July 16.

Yours very truly,



Lawrence G. Kuhn
Executive Director
Iron and Steel Society

LGK/vw

Enclosures

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Iron and Steel Society Headquarters
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JOHN F. ELLIOTT LECTURESHIP
IN
CHEMICAL PROCESS METALLURGY

A fund has been established from contributions from industry to support this lectureship.

The purposes of this lectureship are:

To acquaint students and engineers with the exciting opportunities in Chemical Process Metallurgy and to inspire them to pursue careers in this field;

To inform the public of the contributions of Chemical Process Metallurgy to society; and

To honor Professor John F. Elliott for his many accomplishments, and for the leadership he has provided over a career spanning more than four decades.

- I. **SELECTION OF LECTURER:** The lecturer is nominated by a Joint Committee made up of members from The Minerals, Metals and Materials Society (TMS) and the Iron and Steel Society (ISS). The nominee must be approved by the Board of Directors of both ISS and TMS.

After approval by the Society Boards, the invitation to the Elliott Lecturer will be extended by the Chairman of the Joint Committee.

The Lecturer will serve on a calendar year basis. The Lecturer should anticipate giving three to five lectures during the year.

- II. **SUBJECT:** The lecture topics will relate to Chemical Process Metallurgy. A subject may be suggested by the Joint Committee or the respective Boards of the Societies at the time the invitation is extended to the Lecturer. Or, the Lecturer may select his own subject.

Each Lecturer should present an abstract^(s) of his lecture(s) to the Joint Committee upon acceptance of the invitation.

- III. **FINANCING:** A lecturer so requesting will be reimbursed by the Elliott Fund Administrator, subject to approval by the Joint Committee, for reasonable expenses for meals, lodging, and travel. Reimbursement will be made upon receipt of itemized statement of expenses incurred.

- IV. **STRUCTURE OF JOINT COMMITTEE:** The Committee will consist of five members including the Chairman. Three members will be from ISS, and two members from TMS. The Chairman will be from ISS.

The members of the committee will be appointed by the Presidents of ISS and TMS to serve a three-year term.

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 Purdue University

J.P. Hager
 Colorado School of Mines

S. Mehlman
 Union Carbide Corporation

J. Szekely
 MIT

October 5, 1990

LTV Steel Company
 Technology Center
 6801 Brecksville Road
 Independence, OH 44131, USA

Dr. D. DeYoung
 Staff Engineer
 Alcoa
 Alcoa Laboratories
 Box 772
 New Kensington, PA 15068

Fax No.: (412) 339-6871

Dear Dave:

Re: Elliott Lectureship

The ISS and TMS Boards have approved the guidelines for the Lectureship that we developed in June. This led to Dick Fruehan, as 1990 ISS President, to appoint me Chairman of the first Lectureship Committee.

The first task is to complete the make up of the Committee. The rules call for the Chairman to be from the ISS, with two members from the ISS and two from the TMS. Board approval is required for the four other members. The terms of all members is to be three years, but, to assure proper rotation, we must stagger terms. Please accept the invitation to serve on the Selection Committee for a 3-year term.

Although in the future the Lecturer selection process can be carried out by mail, as at this time we face the task of developing operating rules (e.g., member selection, Chairman rotation -- is it to be the second year of the 3-year term, the Lecturer selection process, etc.), and select the lecturer for 1991, all to be approved by the ISS Board on December 14, I propose we meet as a committee either at the Electric Furnace Conference (New Orleans, December 12-14), or Pittsburgh Airport, say on November 12. Please return the enclosed note by fax.

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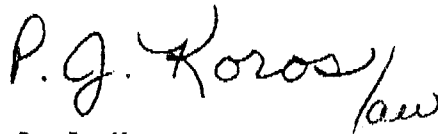
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October 5, 1990
Dr. D. DeYoung

Page 2

I hope you can join us.

Sincerely,

A handwritten signature in cursive script that reads "P. J. Koros" followed by a slanted signature mark that appears to be "aw".

P. J. Koros
Senior Research Consultant

PJK/tas

AMW/4069

enclosure

CHEMICAL PROCESS METALLURGY
THE ELLIOTT SYMPOSIUM

June 10-13, 1990 — Cambridge, Massachusetts

Please reply to:

October 9, 1990

LTV Steel Company
Technology Center
6801 Brecksville Road
Independence, OH 44131, USA

Organizing Committee
Co-Chairmen:

P.J. Koros
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Purdue University

J.P. Hager
Colorado School of Mines

S. Mehlman
Union Carbide Corporation

J. Szekeley
MIT

Fax No.: (412) 268-6421

Dr. R. J. Fruehan
1990 President, Iron & Steel Society
Department of Metallurgical Engineering
and Materials Science
Carnegie Mellon University
Schenely Park
Pittsburgh, PA 15213

Dear Dick:

I am pleased to advise that the Elliott Lectureship Committee for 1991 has been formed, with all perspective members having agreed to serve, pending approval by the ISS Board. The roster is:

	<u>Society</u>	<u>Term</u>
P. J. Koros, Chairman (LTV Steel)	ISS	2 Years
A. W. Cramb (CMU)	ISS	3 Years
S. K. Mehlman (Linde)	ISS	2 Years
G. R. St. Pierre (OSU)	TMS	2 Years
D. H. DeYoung (Alcoa)	TMS	3 Years

We plan to meet either on November 12 (Pittsburgh) or December 12-13 (New Orleans) to agree on operating rules, such as succession to the chair. (I propose generally to be second year of a three-year term), selection of future members (academic/industrial rotation), and definition of method for selection of the Elliott Lecturer. In addition, the Elliott Lecturer for 1991 is to be nominated, again subject to approval by both ISS and TMS Boards.

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October 9, 1990
Dr. R. J. Fruehan

Page 2

Sincerely yours,

A handwritten signature in cursive script, appearing to read "P. J. Koros".

P. J. Koros, Chairman
Elliott Lectureship Committee

PJK/aw
AMW/4088

cc: L. G. Kuhn
A. R. Scott
Elliott Lectureship Committee

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J. Szekely
 MIT

Please reply to:

LTV Steel Company
 Technology Center
 6801 Brecksville Road
 Independence, OH 44131, USA

November 15, 1990

TO: A. W. Cramb - 1993
 D. H. DeYoung - 1993 ✓
 K. E. Kost, ISS
 S. Mehlman - 1992
 G. R. St. Pierre - 1992

Fax: 412-268-6421
 412-339-6871
 412-776-0430
 216-622-7389
 614-292-1537

FROM: P. J. Koros - 1992, Chairman

RE: Elliott Lecture Committee Meeting December 12, 1990

Gentlemen:

This is to confirm the meeting of the Elliott Lectureship Committee. It is December 12, at 3:30 p.m. at the New Orleans Convention Center, Room 3.

AGENDA

- Lectureship Objectives
 - Venue for lectures
 - Annual rotation (3~4?)
- Nominations by the Committee Members
 - Selection due to ISS Board for December 14 approval
 - The first lecturer serves in a unique capacity -- we must select carefully
- Procedures for the Lectureship Committee - Issues:
 - Rotation (2 and 3 year terms)
 - Chairman year
 - How to initiate nomination criteria
 - The operating by-laws are attached

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- 2 -

COMMENTS

My views on the above:

- The objective is to attract people (young and old) into chemical process metallurgy. The mission statement is attached. For this purpose the lectures are best held at (a) local ISS/TMS (ASM?) meetings, such as student or young member nights (Pittsburgh, Chicago chapters have every year), and (b) at college campus student chapters. I guess three or four a year is all we can expect. ISS/TMS to backup with contact and offers to the sections.
- Nominations to be handled at the meeting.
- Rotation of members. Make the chairmanship the second year of service, the third to be backup. Past chairman to nominate replacement members (membership, by the charter, must be three ISS, two TMS).
- If this is done right, the Lectureship Committee should be able to operate by phone/fax communication!

See you on the 12th.

Sincerely,

P. J. Koros
P. J. Koros /aw

PJK/tas
AMW/4212

Attachments

cc: L. A. Kuhn
A. R. Scott
E. M. McGrath

From the 1989 letter of solicitation:

To establish an "Elliott Lectureship" program, whereby annually a distinguished speaker will travel to three to five campuses and/or local ISS-TMS sections to speak on topic(s) related to Chemical Process Metallurgy and/or the future derivatives of much of John's work. The goal is to expose students/young metallurgists, chemists, etc. to the excitement and the opportunities in the field; this is likely to attract others to our industries or to graduate schools we depend on. The fund and the selection of the lecturer would be administered by a committee of members from ISS and TMS.

PJK/aw
AMW/4212
11/15/90

**JOHN F. ELLIOTT LECTURESHIP
IN
CHEMICAL PROCESS METALLURGY**

A fund has been established from contributions from industry to support this lectureship.

The purposes of this lectureship are:

To acquaint students and engineers with the exciting opportunities in Chemical Process Metallurgy and to inspire them to pursue careers in this field;

To inform the public of the contributions of Chemical Process Metallurgy to society; and

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After approval by the Society Boards, the invitation to the Elliott Lecturer will be extended by the Chairman of the Joint Committee.

The Lecturer will serve on a calendar year basis. The Lecturer should anticipate giving three to five lectures during the year.

A commemorative plaque will be presented to the Elliott Lecturer at a TMS or ISS meeting of his choice.

- II. **SUBJECT:** The lecture topics will relate to Chemical Process Metallurgy. A subject may be suggested by the Joint Committee or the respective Boards of the Societies at the time the invitation is extended to the Lecturer. Or, the Lecturer may select his own subject.

Each Lecturer should present an abstract of his lecture(s) to the Joint Committee upon acceptance of the invitation.

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S. Mehlman
Union Carbide Corporation
J. Szekely
MIT

December 27, 1990

Dr. T. R. Meadowcroft
President
Stelco Enterprises
P.O. Box 205
Toronto-Dominion Centre
Toronto, Ontario M5K 1J4
CANADA

Please reply to:

LTV Steel Company
Technology Center
6801 Brecksville Road
Independence, OH 44131, USA

Dear Ray:

I am pleased to confirm the invitation by the Elliott Lectureship Committee for you to be the first Elliott Lecturer selected by the Iron and Steel Society. This Lectureship was established with the funds provided by several industrial organizations toward the Elliott Symposium and is a befitting program to continue the long history of contributions by our friend John Elliott. The objective set for the Lectureship, and thus the guideline for the lecturer, was stated in the letters of solicitation:

"To establish an "Elliott Lectureship" program, whereby annually a distinguished speaker will travel to three to five campuses and/or local ISS-TMS sections to speak on topic(s) related to chemical process metallurgy and/or the future derivatives of much of John's work. The goal is to expose students/young metallurgists, chemists, etc. to the excitement and the opportunities in the field; this is likely to attract others to our industries or to the graduate schools we depend on. The fund and the selection of the lecturer would be administered by a committee of members from ISS and TMS."

In selecting you as the first Elliott Lecturer the Committee wanted to recognize your own illustrious career, from graduate school to academia to industrial research, then into operating management and senior executive post in a major steel producer. This career path and the stirring, positive presentation at the Elliott Symposium create the type of image which all chemical process metallurgists look upon with respect.

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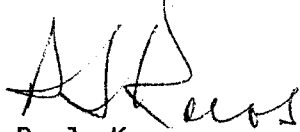
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Pursuant to the rules for the Elliott Lectureship you are expected to deliver between three and five talks at student sections or local ISS/TMS meetings. The Lectureship Committee members are responsible for development of a reasonable schedule that fits your own obligations and travels plans. In your situation it would seem most appropriate that one of the presentations occur at a meeting of the CIM student chapters for McMaster and Toronto. Your travel expenses, if necessary, are reimburseable from the fund, however, we would like to keep such withdrawals to the absolute minimum.

We look forward to a productive and uplifting series of lectures as the Elliott Lectureship series is initiated! Please advise of your preference for the ISS or TMS National meeting at which you wish to receive the ceremonial plaque that accompanies this award.

Sincerely yours,



P. J. Koros
Chairman
Elliott Lectureship Committee

PJK/aw
AMW/4337

cc: L. G. Kuhn, ISS
A. W. Cramb
S. K. Mehlman
G. R. St. Pierre
D. H. DeYoung