

Dawn of ICONE

June 29, 2016

Yasuo Koizumi (Japan Atomic Energy Agency)

1st ICONE

The First JSME/ASME **Joint** International Conference on Nuclear Engineering

November 4 – 7, 1991

Keio Plaza Hotel

Tokyo, Japan

General Chair S. Toda

General Co-Chair R. E. Miller

Vice Chair M. Aritomi

Y. Koizumi

A. S. Rao

J. H. Kim

E. A. Harvego

International Advisory Committee Chair M. Akiyama

Technical Program Committee Chair H. Nariai

ICONE OBJECTIVES AND PROSPECT FOR FUTURE AT 1ST ICONE

(1) 1979 TMI-II

1986 Chernobyl

The nuclear engineering field was in the depressed condition.

To revitalize nuclear engineering research and industry through the international exchange of ASME and JSME engineers and researchers.

(2) Since the nuclear engineering field is very wide, the activity to pursue the objective (1) would be mainly limited to the mechanical engineering field at the beginning.

(3) When the objective (1) is attained, spreading evolutionally the scope and the scale of the conference would be considered in order to contribute the deployment of nuclear engineering world-widely.

(4) US and Japan have many things to learn each other; for example the operation rate for US and the safety culture for Japan (in those days!). The conference would be the right place to execute it.

昭和63年12月20日

日本原子力研究所

東海研究所

動力試験炉部 部長 石川 逸夫様

日本原子力発電(株)

技術開発部 副長

堀口 雅久

拝啓 時下ますますご清栄のこととお慶び申し上げます。

先日電話にて話させて頂きました原子力に関する合同国際会議につきましてその経緯をお話たく手紙を書かせて頂きました。詳しくは次回の動力委員会におきまして話をさせていただきます。

今年4月17日-20日の3日間米国South Carolina州において米国原子力学会と米国機械学会の合同で開催されました NUCLEAR POWER CONFERENCEの期間に開かれました米国機械学会の原子力技術委員会(私も委員の一人としてこの委員会に出席しました)に於て1991年ごろを目途に米国機械学会と日本機械学会合同による原子力動力に関する国際会議の日本での開催の可能性について話がなされ私がその可能性について調査することになりました。

ASME原子力技術委員会に対応する国内の組織を調べましたところ先生が委員長をなされている日本機械学会の動力委員会がそれに対応するのではないかと思ひ連絡をさせて頂きました。つきましては先生が委員長であります動力委員会をASMEの原子力技術委員会に対応する組織としてASMEに連絡したいと考えております。

本件につきまして不都合がございましたらお知らせ願います。

現在ASMEでは原子力の開発は国際的ベースで行わねばならないとする動きが出ておりこの為標記に述べた会議につきましても日本との合同会議としたい意向があります。

本主旨をご理解のうえ原子力動力に関する国際会議を国内で開催できるよう協力の程宜しくお願い致します。

敬 具

ICONE started from this memo paper.

This memo is from **Mr. Higuchi to Dr. Ishikawa.**

Mr. Higuchi attended **the Nuclear Power Conference of ASME and ANS held at South Carolina in 1988.**

He was a member of NED of ASME.

He was asked to survey the possibility to have a joint nuclear engineering conference of ASME and JSME in Japan.

So, after he came back to Japan, **he sent this memo that stated the ASME plan to Dr. Ishikawa** who was the chair of **the Power Committee, the predecessor of the present Power & Energy Systems Division (PESD) of JSME.**

Mr. Ishikawa was the head of the nuclear safety division of the Japan Atomic Energy Research Institute (JAERI) and also my boss in JAERI.

Nuclear Engineering Division
Founded in 1954



The American Society of
Mechanical Engineers

345 East 47th Street
New York, NY 10017

Reply to:

Executive Committee
1988-1989

Chairman
Kenneth L. Adler
Rockwell International
Energy Technology Engineering Center
P.O. Box 1449
Tanog Park, CA 91304
318-700-5640

Vice Chairman
Robert E. Miller
Duke Power Company
P.O. Box 33189
Charlotte, NC 28242
704-373-4548

Members
Scott R. Penfield, Jr.
Gas-Cooled Reactor Association
10240 S. ... Valley Road
San Diego, CA 92121
619-455-...

Anthony M. Umek
Lawrence Livermore National Lab.
P.O. Box 808
Mail Code L-440
Livermore, CA 94551
415-422-3056

Secretary/Treasurer
Sam J. Basham, Jr.
Battelle Memorial Institute
Project Management Division
505 King Ave.
Columbus, OH 43201
614-424-7811

Edwin A. Harvego
Idaho National Engineering Lab.
P.O. Box 1625
Idaho Falls, ID 83415
208-526-9544

Administrative Committee Chairmen

Papers Review
S.R. Penfield, Jr.

Program
A.M. Umek

Honors
S.R. Penfield, Jr.

Membership Development
E.A. Harvego

Member Interests
E.A. Harvego

Public Issues
E.J. Bitten

Emerging Technologies
C. Kakarala

Technical Committee Chairmen

Advanced Reactors
D. Elias

Nuclear Heat Exchangers
D.A. Steininger

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Pressure Vessels & Piping
K.P. Singh

Radwaste Systems
W.T. Gregory, III

Plant Systems
D. Piccione

High Level Radioactive Waste
E.W. Russell

September 14, 1989

Prof. Saburo Toda

Tohoku University
Aramaki aza Aoba
Aoba-ku
Sendai-shi
Miyagi-ken
Japan 980

Subject: Joint ASME - JSME International Conference
ASME Nuclear Engineering Division Executive
Committee Meeting

Dear Professor Toda:

This letter is to inform you that the ASME NED Executive
Committee plans on meeting at the 1989 Joint Power
Generation Conference in Dallas, Texas either on October 24
or 25, 1989 between 8:00 am and 12:00 pm. I will advise you
as soon as exact meeting date is finalized.

One of the subjects we will discuss is the possibility of a
joint ASME - JSME International Conference for either 1991
or 1993. Reason for these two dates is that ASME NED holds
a joint conference with the American Nuclear Society (ANS)
every other year and it would only be possible to hold a
joint conference with JSME on one of the in between years.
I understand the JSME has been working on ideas for a joint
conference regarding Nuclear Energy including possible
meeting locations.

Purpose of this letter is to formally invite you to meet
with the NED Executive Committee such that we can make
various decisions including our planning and schedule for a
joint conference.

I hope you will be able to attend our meeting. We look
forward to meeting you and developing firm plans for the
subject conference.

Sincerely yours,

R. E. Miller, Chairman,
ASME NED Executive Committee

cc: Masahisa Higuchi

I left JAERI 1989.

ICONE was left to me by Dr, Ishikawa.

Prof. Toda took over the chairman of
the Power Committee of JSME and
myself acted the secretary of the
committee.

We, Prof. Toda and myself, started the
preparation to have the conference
hastily.

The Power Committee changed to the
Power & Energy Systems (PESD)
Division in 1990.

**This letter from Mr. Miller of ASME
NED Chair to Prof. Toda of JSME PESD
chair is the first official
correspondence between ASME and
JSME.**

NED and PESD exchanged so many
letters, Faxes and phone calls.

Mr. Higuchi helped us greatly.

Nuclear Engineering Division
founded in 1954

Executive Committee
188-1989
Chairman
Herbert L. Adler
Nuclear International
Energy Technology Engineering Center
3 Box 1448
Ft. Meade, CA 91304
8-700-5640

Chairman
Herbert E. Miller
The Power Company
3 Box 33869
Charlotte, NC 28242
4-373-4548

Members
G. R. Penfield, Jr.
Nuclear Reactor Association
240 Sorrento Valley Road
San Diego, CA 92121
6-458-2500

Thomas M. Limek
Nuclear Livermore National Lab.
3 Box 808
Mail Code L-440
Livermore, CA 94551
5-422-3058

Secretary/Treasurer
William J. Benham, Jr.
Memorial Institute
Management Division
5 King Ave.
Lumbus, OH 43201
4-424-7811

William A. Harvego
The National Engineering Lab.
1 Box 1825
The Falls, ID 83415
8-528-9544

Administrative Committee Chairmen
Members Review
R. Penfield, Jr.

Program
M. Limek

Members
R. Penfield, Jr.
Membership Development
A. Harvego

Member Interests
A. Harvego
Public Issues
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Emerging Technologies
Kakarata

Technical Committee Chairmen

Advanced Reactors

ENRS
Clear Heat Exchangers
A. Steininger

Factor Servicing
C. Drews

Pressure Vessels & Piping
P. Singh

Waste Systems
T. Gregory, III

Int Systems
Piccione

High Level Radioactive Waste
W. Russell



The American Society of
Mechanical Engineers

345 East 47th Street
New York, NY 10017

October 25, 1989

Reply to:

Professor Saburo Toda
Tohoka University
Aramaki aza Aoba
Aoba-ku
Sendai-shi
Miyagi-ken
JAPAN 980

Re: Joint JSME-ASME International Conference

Dear Professor Toda:

Speaking for myself and the other members of the NED Executive Committee, it was a pleasure to meet you during your recent visit to the USA. We also appreciate the good work and quality of the JSME proposal for a future joint conference between our two societies in 1991.

Based on preferences of the JSME and the numerous constraints ASME/NED faces, the USA participation will be as follows:

1. ASME/NED is supportive of the joint conference concept as a mechanism to increase the exchange of technology on an international basis. ASME/NED would be happy to support the JSME Conference on a co-sponsor, participative basis only. JSME would be fully responsible for all conference arrangements, technical program, and totally responsible for conference financial success (profits or losses). ASME agrees to provide Mr. Atam Rao as the technical program contact and liaison in the USA. Mr. Rao would publicize the conference throughout the United States with companies whom we think have both the interest and justification for providing speakers and technical papers, and who would cover expenses for their personnel to travel to Japan in support of this conference.
2. Please recognize ASME/NED's involvement with this conference must be approved by the ASME Board on Conferences. We feel this approval will not be controversial and should be approved as described in this correspondence. Our ASME approval would allow the JSME to use the ASME logo on conference materials and if you desire, you could document and advertise the conference as a JSME Conference co-sponsored by the ASME.

Page Two

12A

3. From ASME/NED's planning point of view, it would be desirable for the conference to be held in the Spring of 1991 versus the Fall of 1991. Reasons for our preference is to spread our efforts and resources between the JSME Conference and the USA Joint Power Generation Conference which occurs in the October/November time period. Note this is an ASME preference only, and we would support the JSME conference regardless of your final schedule.

4. ASME/NED is supportive of JSME being a co-sponsor for a similar conference in the USA two years later, during 1993. Based on the success of the 1991 conference in Japan, ASME will have to determine whether to sponsor a separate new ASME/JSME Conference in the USA or ask JSME to co-sponsor one of our existing conferences. Possibilities for JSME co-sponsoring a conference in the USA will have to be finalized by ASME over the next couple of years.

All of the above in effect confirms the 1991 conference is a stand-alone commitment on the part of ASME; however, we are optimistic that every other year our two societies can co-sponsor a conference which would alternate between our two countries.

If you have any questions, please contact me so we can discuss and finalize your understanding of NED's counter-proposal.

I will immediately seek approval of NED's proposal by ASME's Board on Conferences and will advise you as soon as possible of their acceptance. Meantime, it is recommended you discuss ASME's counter-proposal with your society so that we might reach concurrence on our plans.

Based on all the above, we feel ASME can develop and provide numerous technical papers to the various sessions outlined in your conference proposal; however, it is not possible to predict the number of papers the USA would provide. There should be a sufficient number of American presentations to support the concept of ASME co-sponsoring the conference, however.

Reached the final-official agreement.

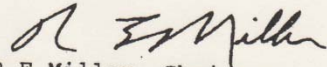
Every Two Years in US and Japan Mutually.

Page Three

Please conduct your discussions with me until we have reached an agreement on the conference plans. Once this agreement is final, I will provide you with sufficient information to begin your communications directly with Mr. Atam Rao for balance of planning and session development.

We appreciate your interest in developing this international relationship and technology interchange between our societies and nations.

Sincerely yours,



R E Miller, Chairman
ASME NED Executive Committee

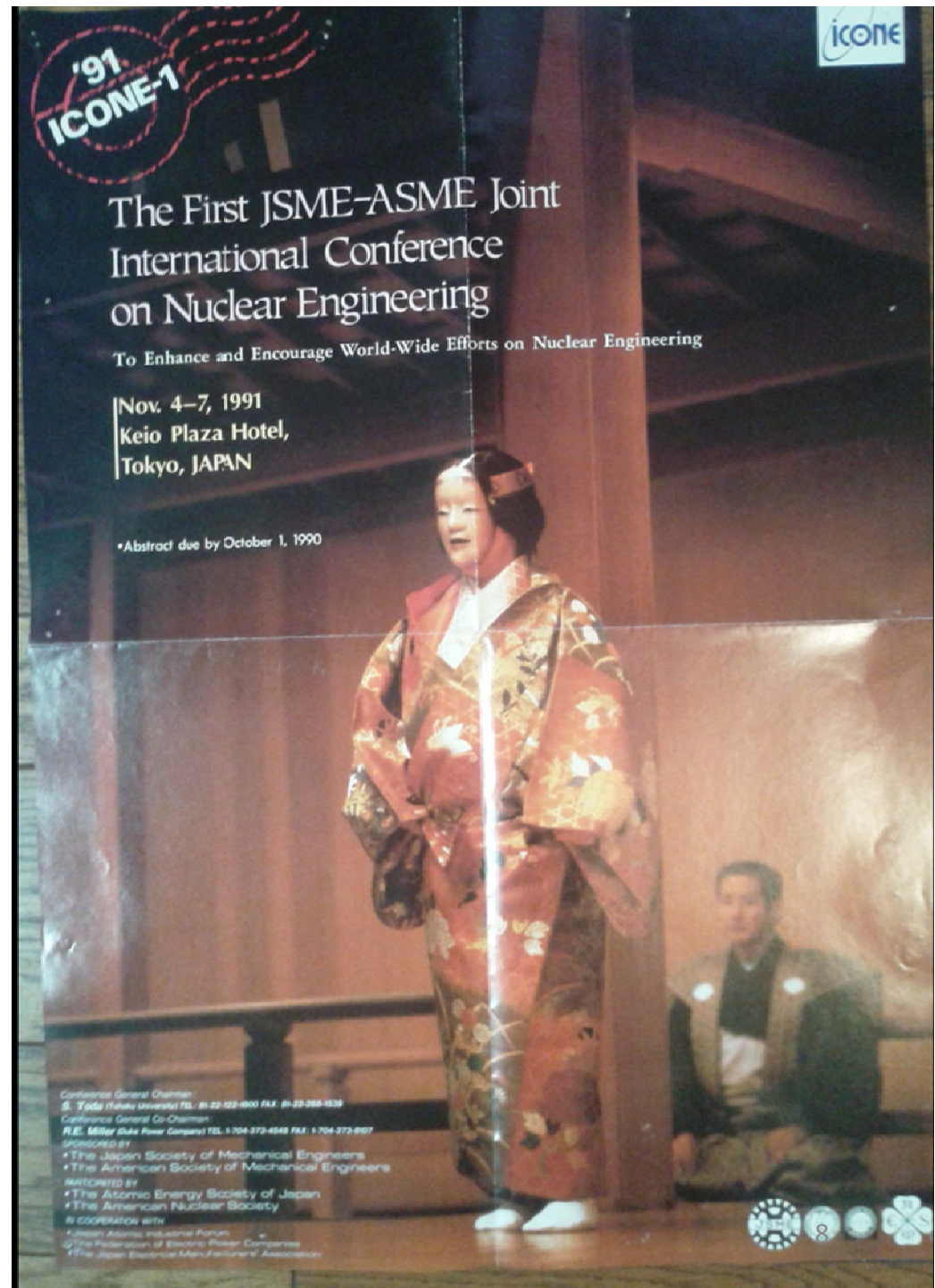
REM/cpn

cc: NED Executive Committee
Remco Waszink

Poster for ICONE1

ICONE: This abbreviation was decided.
Dr. Ishikawa said “**Ikone** 行こうね!
Japanese pronunciation
(Let's proceed in Japanese)”, Good!

The **ICONE logo** was also decided.
This was designed by a colleague of **Dr.**
Nagasaka of Toshiba Co.





ICONE1 Circular

ICONE-1

The 1st JSME/ASME Joint International Conference on Nuclear Engineering



November 4-7, 1991
Keio Plaza Hotel
Tokyo, Japan

 The Japan Society of Mechanical Engineers
 The American Society of Mechanical Engineers

CONFERENCE OFFICIAL

S. TODA	General Chairman
R. E. MILLER	General Co-chairman
M. ARITOMI	Vice-Chairman
H. NARIAI	
Y. KOIZUMI	
A. S. RAO	
J. H. KIM	
E. A. HARVERGO	

Organizing Committee Members

S. TODA	Chairman
M. ARITOMI	Secretary
M. AKIYAMA	
Y. FUJIE	
S. FUKUDA	
Y. HAYASHI	
M. HIGUCHI	
H. HIRANUMA	
M. IKEDA	
Y. KOIZUMI	
I. KOKUBU	
J. KOMATSU	
H. KUDO	
T. MIWA	
H. NARIAI	
N. OGAWA	
A. OHKI	
Y. SANOGAWA	
K. SHIRATORI	
Y. SUZUKI	
T. TAKAHASHI	
I. TATEISHI	
H. YOSHIMI	

Secretariat

Att. T. Nakajima
The Japan Society of Mechanical Engineers
Shinjuku Sanshin Bldg.,
4-9, Yoyogi 2-chome
Shibuya-ku, Tokyo 151, JAPAN
Telephone 81-3-3379-6781
FAX 81-3-3379-0934

International Advisory

Committee Members

M. AKIYAMA	Japan	Chairman
H. BRUSCHI	USA	
S. BUSH	USA	
S. L. COG	France	
K. V. FROLOV	USSR	
Y. FUJIE	Japan	
H. HALLINGHAUS	USA	
K. IIDA	Japan	
T. ITAKURA	Japan	
M. S. KAZIMI	USA	
V. A. KREMNEV	USSR	
W. KROGER	Switzerland	
S. LEVY	USA	
R. MATZIE	USA	
G. A. ORLOTTO	USA	
L. OYEN	USA	
S. K. PARK	Korea	
G. PETRANGALLI	Italy	
K. RUST	Germany	
K. STAHLKOPF	USA	
V. SCHROCK	USA	
J. B. TULENKO	USA	
L. S. TONG	USA	
A. VERKOOIJEN	Netherlands	
J. WAKABAYASHI	Japan	
D. R. WILKINS	USA	

The 1st JSME/ASME Joint
International Conference
on
Nuclear Engineering

PROGRAM



November 4 - 7, 1991
Keio Plaza Hotel
Tokyo, Japan

Sponsored by:

The Japan Society of Mechanical Engineers
The American Society of Mechanical Engineers

Participation by:

Atomic Energy Society of Japan
The American Nuclear Society

In cooperation with:

Japan Atomic Industrial Forum
The Federation of Electric Power Companies
The Japan Electrical Manufacturers' Association

Dinner Address at the 1st JSME/ASME International Conference
on Nuclear Engineering, Nov. 6, 1991.

The Role of Mechanical Engineers in Nuclear Safety Assurance

Hideo Uchida

Chairman, the Nuclear Safety Commission, Japan

Ladies and Gentlemen:

It is indeed a great honor and pleasure for me to have been invited to the banquet and deliver the dinner address at the 1st JSME/ASME International Conference on Nuclear Engineering.

I studied mechanical engineering at college and have therefore been a member of the Japan Society of Mechanical Engineers for many years.

As many of the organizing committee members for this conference are friends I have known well for many years, I was very glad to be invited to tonight's banquet. Now, taking this opportunity, I would like to explain current nuclear safety issues, briefing nuclear power development in Japan.

During the early years of the development of nuclear power, I recognized that the unsteady heat transfer phenomena played an important part in the cooling of the nuclear reactor. In fact, it would be no exaggeration to say that it was at the very heart of the technological problems relating to the safety of nuclear reactors. It was my work in this field that led to my three-decade involvement as one of advisors in nuclear safety regulation. I currently serve as chairman of the Nuclear Safety Commission (NSC).

The Nuclear Safety Commission was established in 1978. Although this commission can be compared to the US NRC (Nuclear Regulatory Commission) which is an administrative agency, the NSC is an advisory organ to the Prime Minister. The NSC has a character independent of both the administrative organization and the industry and it consists of five commissioners. The NSC is responsible for determining principal policies related to nuclear safety regulation. On the contrary, the Atomic Energy Commission established in 1956 is responsible for determining principal policies for research, development and uses.

The safety regulations for nuclear facilities of Japan, including the issuance of an establishment permit and an oper-

Evening Boat Cruise in Tokyo Bay during ICONE1.



年中無休で、お待ちしております。
 春夏秋冬、いつでもご利用ください。
 出航時間等も、お客さまのご都合に
 応じます。ぜひお気軽にご相談くだ
 さい。なお、コースは天候状況等に
 より変更される場合があります。



▲写真は1万円コース、4人前の料理です。
 (料理の内容は時季により変わる場合もあります。)

料理に、サービスに、ご満足いた
 けます。
 はんでん姿の船頭が、素晴らしい隅田
 川をご案内いたします。また、天ぶ
 ら等、自慢の手料理もご興味くださ
 い。またご希望により、芸者がおも



江戸・東京の母
 なる川と呼ばれる
 隅田川。
 経済高度成長時代
 汚染により忘れら
 れていた隅田川も、
 東京オリンピックを
 機会によりみがえ

今、話題の舟遊び
 ちよつとユニークな演出で
 屋形舟パーティー。



りをみせ、数々の伝統行事や自然が
 もどつてきました。

花見舟、涼み船、雪見船、観覧船。11
 江戸時代末期から明治にかけて全盛
 をきわめた舟遊び。当時は上流階級
 の娯楽として楽しまれましたが、現
 在では、江戸情緒の粋を味わうべく
 庶民が楽しめる風物としてよみがえ
 りました。この復活した隅田川文化
 の素晴しさを「あみ清」の屋形舟で
 味わっていただきたいと思ひます。

六隻の一〇〇人乗り大型屋形舟登場
 中型六隻、計十二隻。
 バランスがよく揺れが少ないのが自
 慢です。宴会、接客をはじめ、会合、
 月例会、歓送会、夜景見物その他、
 釣などにも広くご利用ください。作
 業船、撮影船等々、船のご用命は、
 あみ清へ。

ICONE-1 Review採択論文 (3.7.20)

国別件数 総数 215件 (他に pending = 3件)

国別件数	総数	215件	(他に pending = 3件)
日本	133	(1)	
英国		2	
米国	32	(1)	
伊		2	
ソ連	13		
ユーゴ		2	
仏	7		
スウェーデン		1	
中国	7		
オランダ		1	
韓国	6	(1)	
スイス		1	
独	4		
フィンランド		1	
加	2		
ベルギー		1	

セッション別	件数
(1) Fundamental Technology	31
(2) Heat Exchanger	16
(3) Materials and Structure	22
(4) Advanced Reactor Technology	30
(5) Technology to Enhance Reliability	9
(6) Safety	32 + p
(7) Plant Operation Maintenance & Tech.	25
(8) Nuclear Power Plant Life Extension	5 + p
(9) Plant Decommissioning	23
(10) Nuclear Fuel Cycle	6 + p
(11) Instrumentation and Control	8
(12) Application of High Technology	8

At ICONE1

Attendees

408

from Japan

344

from Outside of Japan 64 (US 25, France 9, Korea 8, etc.)

Paper

187

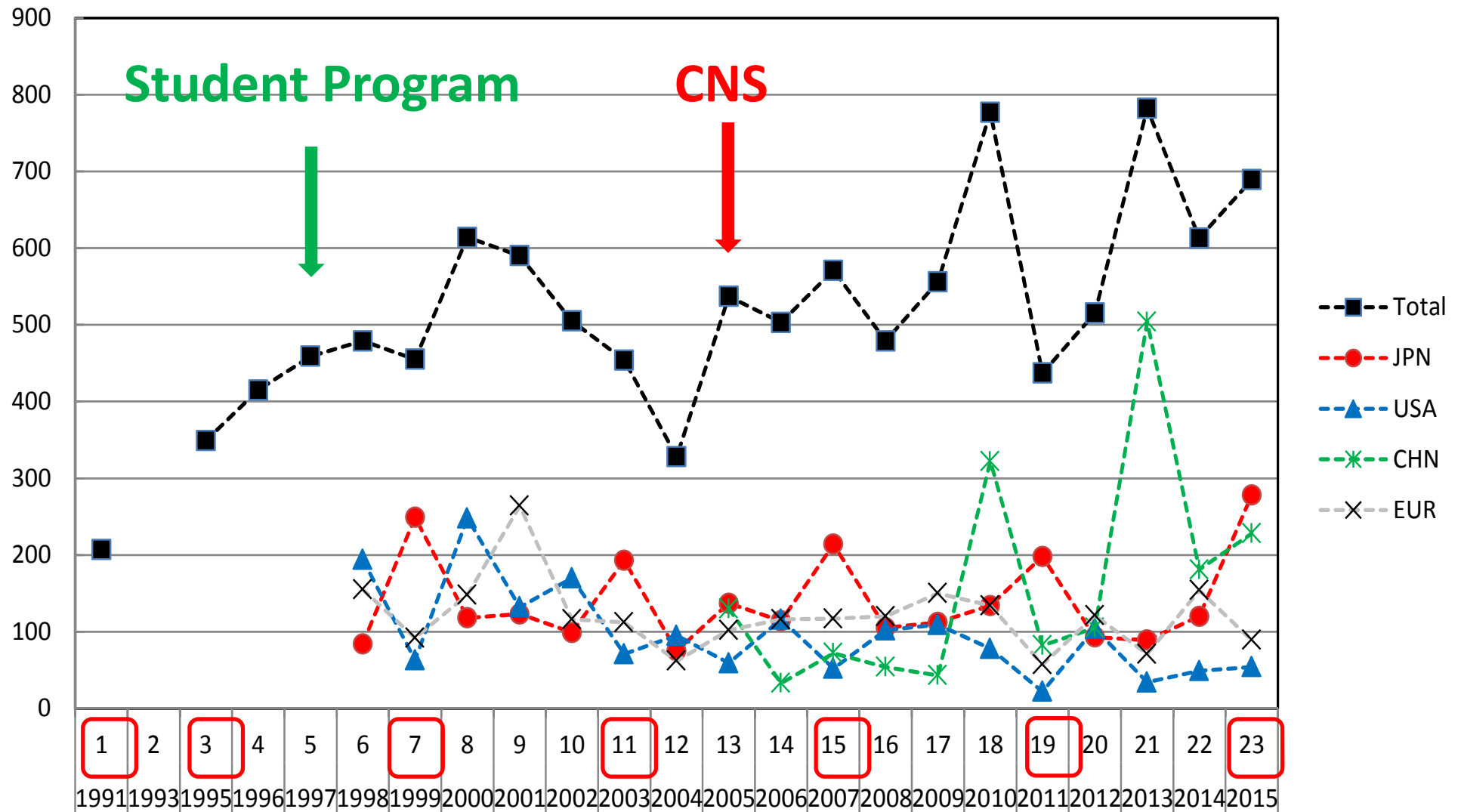
from Japan

128

from Outside of Japan 57

Number of Papers (By Prof. Takeda)

(3) When the objective (1) is attained, **spreading evolutionally** the scope and the scale of the conference would be considered in order to contribute the deployment of nuclear engineering world-widely.



Prof. Toda.

Big Founder of ICONE.

We owe the great success of
ICONE to him.

He passed away May 3rd, 2016.

Join hands in prayer. 合掌
Let's express our great regret to him.



END