

THE BULLETIN OF JSA

THE JAPAN SCIENTISTS' ASSOCIATION

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THE 32ND NATIONAL SYMPOSIUM ON ATOMIC POWER HELD IN IWATE

The 32nd National Symposium on Atomic Power was held on August 27-28, 2011 at Iwate University. There were about 250 participants of the JSA members and citizens in attendance. The research committee of energy and nuclear power problems and the executive committee of the Iwate branch hosted and Iwate University supported the symposium.

In the first session entitled "The inspection of the accident of Fukushima nuclear power plant". Dr. Tateno (General Secretary of Nuclear and Energy Related-Information Centre) and Dr. Noguchi (Chairperson of the Research Committee of Energy and Nuclear Power Problems) lectured. Dr. Tateno explained the accident of the Fukushima nuclear power plant, the melt down of a nuclear reactor, the process of water injection, and the reaction of hydrogen production without difficulty. Dr. Noguchi reported on the real situation of whole head of cattle inspection, he mentioned the misunderstanding of the radioactive decay rate and pointed out that the effort to diminish the total emission rate of radioactivity for the time being is important.

In the second session entitled "Ask the policy on energy and nuclear power" a panel discussion was held. Six panelists, Mr. Motojima, Mr. Iwai, Mr. Shimizu, Mr. Nagata, Mr. Yamamoto and Mr. Fuako discussed and answered the questions of the participants. The subjects of the panel discussion were as follows; the true nature of the Fukushima nuclear power plant accident taking account of the history of Japanese electric undertaking after World War II, a plan for regional revival, dangerous radioactive effluent from the nuclear fuel processing plant, realization of a community being independent on nuclear power, and plans of energy supplying without nuclear power plants.

The theme of the third session was "Dangerousness of the nuclear fuel processing plant". Three reporters, Mr. Ichikawa, Mr. Matsuyama and Dr. Kawasaki presented the status of the nuclear fuel processing plant, the fault just under the plant and the pollution of the sea by the plant. In final comprehensive discussions were performed.

Although a concrete direction on energy policy had not been made, the discussion between JSA and citizens was significant for the movement to change energy policy.

ACTIVITIES OF RESEARCH COMMITTEES AND GROUPS

The JSA headquarters organizes a number of research committees and groups undertaken on a nationwide scale, which are encouraging the members across the country

Symposium on radiation contaminated water and foods held

The research committee of foodstuff problems held a symposium "East Japan Earthquake disasters and Fukushima nuclear power plant accident – Measures against radiation contaminated water and foods" on

September 11, 2011 at Civic Center, Bunkyo-ku, Tokyo. Dr. Ikegami (Emeritus Prof., Otsuma Women Univ.) talked about the standard and actual status of radiation pollution of foodstuff and water and mother's milk, and its influence to health and defense from them, in particular to advise young mothers.

The nuclear power plant accident, never seen in the world, has not yet been settled and we must watch efforts and study in the future. She emphasizes the following as to radiation contaminated water and foodstuff. (a) Viewing the pollution problem of water, foodstuff, air, and soil, it needs to rethink of the security of nuclear power plant; (b) This accident revealed no measures against pollution of water and foods. It is then necessary to fulfill, (i) to establish the delivery and ingestion bases on scientific ground, (ii) to improve the inspection system, (iii) to advance study of effects of internal radiation on human organism and define the safety area, (iv) to examine how to transmit information in consumers' way of looking.

There were raised some questions and opinions from the floor, for instance, "How to estimate radiation in nature?", "How to cook to reduce radiation pollution?", "How to deal with agricultural product in Fukushima?", and "I am anxious about the safety of school catering" and so on.

DISTRICTS' AND BRANCHES' ACTIVITIES

The JSA consists of 47 branches which are grouped into 9 districts, and they are independently and/or cooperatively carrying out their activities in addition to the headquarters' ones

1) SYMPOSIUM ON NUCLEAR POWER PLANT DISASTERS AND INTERNAL EXPOSURE HELD IN OKINAWA

The Okinawa branch held the above titled symposium at Ryukyu University on August 10, 2011, following April 11 symposium "Great East Japan Earthquake: huge earth quake, tsunami, and nuclear power plant disasters". Prof. Yagasaki delivered a lecture "Hazardous nature of internal exposure – Behavior of radioactivity and criticism against ICRP". He first criticized that the safety standard the state government, the electric power company, and the scholars advocate nuclear power sing is the worst lie since there is no threshold under which dose exposure is judged to be safe, and the ICRP (International Commission on Radiological Protection)-defined standard is the very utilitarian one weighing human health and promotion of nuclear power plant in a balance, which forces the tolerance of radiation exposure. The internal exposure damages DNA increases risk in the process of recombination, especially which has an effect on vividly growing up infants, he explained. The professor subsequently proposed methods to defend ourselves against radiation exposure: (1) to no supply and take in agricultural and aquatic products from lands indentified the pollution; (2) the state government's compensation for those products; (3) to keep radiation exposure for the *radiation exposure weak* such as infants, school children, pregnant, and patients to a minimum; (4) to assign responsibility to Tokyo Electric Power Co. and the state government to clear polluted soils. He also appealed to researchers of radiogenics and radiology, saying that the researchers are required to learn the fact that internal exposure was recognized at every radiation causality recognition suits and to release themselves from the influence of ICRP. About 50 participants, most of whom being mothers fled to Okinawa avoiding radiation exposure, were found to think Okinawa to be safe because of no nuclear power plants. But US nuclear submarines frequently have visited, so the island is not free from nuclear accidents. It is fearful to consider nuclear accidents of such reactors that the Japanese government could not touch nor check the security.

2) A SERIES OF CIVIC LECTURES IN MIYAZAKI; “RETHINKING OF MIYAZAKI FOOT AND MOUTH DISEASE ON THE OCCASION OF FIRST ANNIVERSARY”

On August 27, 2010, the end of Miyazaki foot and mouth disease (FMD) was declared. On the occasion of first anniversary the Miyazaki branch planned a series of civic lectures to understand the real state of FMD, to prevent the recurrence, to think a future state of animal health, animal industry and agriculture and to

develop the regeneration of local area. As the FMD disaster had the various aspects, a 4-part series of lectures was to be carried out by the Miyazaki branch and other two groups.

The first lecture was held on August 26. About thirty participants including stock farmers and veterinarians studied and discussed the FMD issues widely. While there were 292 infected farms, 1011 farms were not infected. The state of the vaccination to these non-infected farms, the cause of the spread of FMD and the prevention system were also discussed. Now that the outbreak of FMD had been progressing in Asia, the risk of the recurrence should be always considered in Miyazaki. The lecture received a lot of publicity in the media.

The second lecture was given on September 26. The title was "The issue concerning burial after the outbreak of FMD comparing the 2010 Miyazaki's case with the 2001 England's case". While little information concerning the burial was acquired, the method of burial and the effect on environment were reported based on the facts obtained by hearing from farms. England's preventive system and measure against the outbreak after the great scale of FMD outbreak in 2001 and the comparison with the state in Japan after revising "Act on Domestic Animal Infectious Disease Control" were reported. Stock farmers appealed for the actual situation that they could not bury because the concrete methods to bury were not shown even on the revised Act.

JSA^{NOW}

Briefings from organizers

TOKAI DISTRICT

Aichi and Gifu branches held a spring tour during February 18-19 visiting a sake brewer in Ena City and a small scale hydraulic plant in Nakatsugawa City.

KINKI DISTRICT

Kinki JJS (Journal of Japanese Scientists) supporters meeting was held on February 25 at the Kyoto branch office, where Dr. Sokawa (Emeritus Prof., Kyoto Institute of Technology) presented his opinion on articles appeared in recently-published volume.

AOMORI BRANCH

Hirosaki University chapter held 2nd regular meeting on January 24, where an inspection of Chernobyl nuclear power plants organized in 2010 was reported.

MIYAGI BRANCH

The branch held a civic lecture "Labor and employment in the wake of the great earthquake" inviting lawyer Mr. Onodera on December 17 at Tohoku University.

TOKYO BRANCH

1) The 96th new peace colloquium was held on December 23 at Bunkyo Kumin Center, Tokyo, where Prof. Kaneko (Rissho Univ.) gave a lecture "Actual situations of the Noda Cabinet and political parties".

2) The 97th new peace colloquium was held on January 27 at Bunkyo Kumin Center, Tokyo, where Prof. Kaneko (Rissho Univ.) gave a lecture "East Japan Earthquake disasters and the Constitution (7)".

3) On February 19 Graduate students group held a meeting concerning thesis-writing, where two graduate students talked about their progresses.

4) On February 22 Tama Hegel study group held a regular meeting inviting Dr. Ogawa (Earthquake Research Inst., the Univ. of Tokyo).

5) The 98th new peace colloquium was held on February 24 at Bunkyo Kumin Center, Tokyo, where Prof. Kaneko (Rissho Univ.) gave a lecture "East Japan Earthquake disasters and the Constitution (8)".

KANAGAWA BRANCH

The branch and friendly organizations held a symposium "Various aspects of Kombinat problem" on February 25. Three lectures were given: (a) Dr. Suzuki (Emeritus Prof., Tokyo Cosmopolitan Univ.) "Characteristics of Kombinat earthquake disasters and the way of quake-proof and accident prevention"; (b) Mr. Takeuchi (associate director-general, labor union in Kawasaki) "Hazardous status of Keihin Kombinat and accident prevention measures"; (c) Prof. Hamada (Waseda Univ.) "Hazardous nature and measures at the water front of Tokyo Bay".

SHIGA BRANCH

1) On February 12 at Bukkyo University the study group of labor science held a seminar where following two lectures were given: (a) Ms. Teranishi (rep., national center of Karoshi-victim family) "The problem of karoshi suicide"; (b) Prof. Morioka (economy, Kansai Univ.) "Actual status of overwork and Overwork Prevention Act".

2) The branch held a debrief session of radiation pollution measurement in Fukushima on February 25 inviting Prof. Hata (Osaka City Univ.)

KYOTO BRANCH

1) On December 2 at the branch office, the branch's JJS book club was held to read the feature "The 2011 Tohoku Earthquake and the huge tsunami" with Mr. Suzuki's report.

2) *Kyoto appeal for zero nuclear power plants* held a civic lecture on December 10 at Ryukoku University, where Prof. Anzai (honorary director, Kyoto Museum for World Peace) delivered a lecture.

3) Individual members gathered to celebrate a new year on January 6 at a community center, Kyoto. Ms. Shimizu was invited to give a lecture titled "Manchukuo and children".

OSAKA BRANCH

1) The study committee of philosophy held a regular meeting on December 16, where Prof. Sugano (physicist, branch representative secretary) talked about the state financial collapse and crisis of world economics.

2) On December 17 JASS science café was held at JASS Juso Event Site, Osaka, where Dr. Nakamura (branch secretary) lectured on the security of water to drink.

3) The study group of "The capital" held a regular meeting on December 19 at the branch office to read Part I Ch. 13 Machines and great industry under the direction of Mr. Hiraishi and Mr. Matsuoka.

4) The study group Contemporary Capitalism held a regular meeting on December 22 at the branch office. Prof. Suzuki (Momoyama Gakuin Univ.) delivered a lecture on imperial system.

5) On December 24 at Nakazakicho mall, Osaka, the branch held the 39th Kitatenma Science Café, where science teachers demonstrated experiments.

6) On January 8 the Kansai-area's colloquium for scientific workers in private enterprises held a regular meeting, where Dr. Nishiyama reported about the history of X-ray CT scanner.

7) On January 14 at Nakazakicho mall, Osaka, the branch held the 40th Kitatenma Science Café, where Prof. Kikuchi (Osaka Univ.) delivered a lecture "Figures in the environment – Mathematician's idea".

8) The study group Contemporary Capitalism held a regular meeting on January 24 at the branch office, in which Prof. Yasuki (Osaka Intl. Univ.) and Prof. Iwahashi (Hannan Univ.) gave a lecture on the barrowing crisis in Europe.

9) The study committee of philosophy held a regular meeting on January 27, where Prof. Moriwaki (history of science) made a talk "Sericulture at Meiji Era and Mendelism – Focusing at K. Sotoyama".

10) The branch held New Year Lunch on January 28, where Dr. Nakamura (branch secretary) delivered a lecture on ABC of egg, a knack of keeping freshness and so on.

11) The study group of "The capital" held a regular meeting on January 30 at the branch office to read Part

I Ch. 13 and Ch.14 under the direction of Mr. Matsuoka and Mr. Hiraishi.

12) On February 4 at Nakazakicho mall, Osaka, the branch held the 41st Kitatenma Science Café or craft café (2), where Ms. Tani (Suigyoku Do) explained the attractive hard dying Yuzen.

13) The Kansai-area's colloquium for scientific workers in private enterprises held a regular meeting on February 5 at the branch office, where they discussed medical practice and radiation exposure under the direction of Ms. Funai.

14) Hegel study group held a regular meeting on February 11 at Momoyama Gakuin University. They made a discussion on Vorrede of *Phenomenology*.

15) On February 18 at Nakazakicho mall, Osaka, the branch held the 42nd Kitatenma Science Café or craft café (2), where Prof. Sukino (Osaka Univ.) delivered a lecture on human relationship found in Japanese macaque's society at Arashi Yama, Kyoto.

16) On February 18 the 18th Suita Science Café was held. Dr. Doi (Hikone weather central) gave a talk about meteorological observation in Antarctica for the youth.

HYOGO BRANCH

1) The branch held a civic lecture meeting "Influence of radiation" under the joint auspices of Hyogo society seeking the denuclearized government on December 17, where Prof. Nakagawa (Faculty of Human Development, Kobe Univ.) delivered a lecture "Inference of radiation – 9 months from the Fukushima nuclear power plant accident".

2) On February 19 the branch and Hyogo society seeking the denuclearized government held a commemorative lecture for the society's general assembly, where Prof. Imanaka (Kyoto Univ. Research Reactor Inst.) addressed under the title "Fukushima and Chernobyl seen from the investigation of radiation pollution".

FUKUOKA BRANCH

On February 6 the branch submitted to Kyushu Electric Power Co. an appeal of the decommissioning of Genkai nuclear power plant reactor.

OKINAWA BRANCH

On December 14 at Ryukyu University the branch held a study meeting "Influences of TPP (Trance Pacific Partnership) in the Japanese society", where there were invited Prof. Naito, Prof. Nakachi, and Dr. Nishina.

ARTICLES OF "JOURNAL OF JAPANESE SCIENTISTS"

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