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May 6, 1987

Mr. A. Milburn
Executive Director
IAWPRC
1 Queen Anne's Gate
London SW1H 9BT
England

Dear Mr. Milburn:

Re: Proposed Specialist Group on Wastewater Reclamation and Reuse

Thank you for your letter of April 8, 1987 regarding the subject matter. My reply to your letter is delayed due to my month-long trip to Japan, in conjunction with the 24th Japan Sewage Works Association Annual Technical Conference in Osaka. In the meantime, I am also in receipt of your memorandum dated April 15, 1987 addressed to all chairmen and secretaries of specialist groups and task groups.

I have no objection to the six-point procedures you outlined in your letter of April 8, 1987. The only concern I have is that the number of the members might become so large that I would definitely need assistance from you and your staff at the IAWPRC Headquarters. I did not imagine that there would be so much interest in this topic within IAWPRC. I thought that the original membership of thirty-one members from fourteen countries would be enough for our Specialist Group. With this in mind, I would like to ask you, if appropriate, to send copies of the attached letter typed on your letterhead and under your signature, to all National Committees of IAWPRC informing them of the decision to set up the Group and to plan to have an organizational meeting in Brighton, England in 1988 and a one-day seminar on wastewater reclamation and reuse in Kyoto, Japan in 1990. I will be pleased to coordinate plans for the proposed Brighton meeting.

Finally, for the record I would like to review chronologically the events leading to the formation of the Specialist Group on Wastewater Reclamation and Reuse and the subsequent decision by the IAWPRC Executive Committee held on March 19 and 20, 1987 in Portugal as follows:

1. August 17-22, 1986: I distributed a flyer describing the proposed formation of the Specialist Group on Wastewater Reclamation and Reuse at the 13th IAWPRC Biennial Conference in Rio de Janeiro. I received a good response.
2. September 6, 1986: I wrote to Mr. A. Milburn, Executive Director, IAWPRC, about the distribution of the flyer and the planned activities for the proposed formation of the Group.
3. September 19, 1986: I received a letter from Mr. Milburn acknowledging the above letter. He supported the concept for the proposed new Group.
4. November 25, 1986: I informed Mr. Milburn on this date of the terms of reference and the objectives of the proposed Group along with the names of twenty-two members who responded to my call for membership. I assumed, in this letter, a tentative Chairmanship for the Group and nominated Dr. Uwe Neis (Burundi, Africa) and Dr. Ed Dean Smith (Champaign, Illinois, U.S.A.) as tentative Secretaries.
5. November 30, 1986: I informed all members of the Group of my submitting of the application to Mr. Milburn regarding the formation of the Group. At this point, our membership was twenty-two individuals from ten countries.
6. December 12, 1986: Mr. Milburn sent a letter to all members of our proposed Group informing them about the forthcoming Executive Committee meeting and also the information on the AWWA Water Reuse Symposium IV in August, 1987 in Denver, U.S.A. I received a letter from him dated this date informing me that "the documentation for the application to form the Group seems comprehensive and we should have few, if any, problems."

5/6/87

7. February 5, 1987: I wrote to Mr. Milburn on this date updating him on the progress made in the formation of the Group. Membership now had grown to twenty-five individuals from eleven countries. I also outlined the possible preliminary meeting in Denver in August on the occasion of the AWWA Water Reuse Symposium to discuss plans for an organizational meeting in Brighton, England in 1988, and a seminar on wastewater reclamation and reuse in Kyoto, Japan in 1990.

8. March 22, 1987: I informed Mr. Milburn on this date that two scholars from Israel joined the Group, and sent him an updated membership list consisting of thirty-one members from fourteen countries.

9. April 8, 1987: I received a letter dated this day from Mr. Milburn informing me of the Executive Committee's decision which is the subject of this letter.

I hope that this lengthy chronology on the formation of the Specialist Group on Wastewater Reclamation and Reuse will serve as the record and the progress report to the current membership.

Sincerely,

A handwritten signature in black ink, appearing to be 'T. Asano', with a stylized, flowing script.

Takashi Asano

Encl.

c/c Members of the proposed Group.

DRAFT

File Name: Specialist (9/18/87)

**SPECIALIST GROUP ON WASTEWATER RECLAMATION AND REUSE,
INTERNATIONAL ASSOCIATION ON WATER POLLUTION RESEARCH AND CONTROL**

Background:

The formation of the **Specialist Group on Wastewater Reclamation and Reuse** was proposed at the 13th IAWPRC Biennial International Conference in Rio de Janeiro, Brazil, August 17-22, 1986. This new Specialist Group was then approved by the IAWPRC's Executive Committee at its meeting on March 19-20, 1987 in Portugal. The news on the formation of the **Specialist Group on Wastewater Reclamation and Reuse** was reported in Water Quality International, Number 2, 1987 together with the four new specialist groups approved by the Executive Committee (IAWPRC News, pp 12-14). Prof. Takashi Asano (U.S.A.) was asked to be the coordinator for the Group until the proposed inaugural meeting at the IAWPRC's 14th Biennial Conference in Brighton, England on July 17-23, 1988. At this meeting attended by all interested persons, it is planned to formally inaugurate the Group, elect officers (chairman, secretaries, managing committee members), and prepare and approve work plans.

By the letter of Mr. A. Milburn, IAWPRC Executive Director, dated May 29, 1987, all secretaries of IAWPRC National Committees were notified of the formation of the **Specialist Group on Wastewater Reclamation and Reuse** and requested to advise interested professionals in their respective countries of the opportunity to join.

On the occasion of the Water Reuse Symposium IV held in Denver, Colorado, U.S.A., a brief informal meeting was held on August 2, 1987. Those who attended were Prof. T. Asano (U.S.A., Presiding), Dr. C. Bartone (U.S.A.), Eng. M.H.F. Marecos do Monte (Portugal), Prof. R. Mujeriego (Spain), Mr. P. Odendaal (South Africa), Dr. J. Rose (U.S.A.), Prof. N. Shamas (Saudi Arabia), and Prof. H. Shuval (Israel). Prof. Asano (U.S.A.) was asked to prepare a draft of terms of reference for the Group, discussion topics, and an agenda for the inaugural meeting in Brighton. In addition, Mr. P. Odendaal (South Africa) provided valuable inputs to the Specialist Group by outlining organizational structures, scope, and conduct of the Specialist Group in his letter to Prof. Asano dated August 19, 1987. All the inputs were incorporated into the following objectives and the terms of reference.

As of September 18, 1987, forty-four (44) members from fifteen (15) countries joined the Group as shown in the following tally:

Burundi 1	Canada 1	China 1	Israel 4
Italy 3	Japan 3	Portugal 1	Saudi Arabia 1
Singapore 1	Spain 1	South Africa 6	Thailand 1
U.K. 2	U.S.A. 16	W. Germany 2	

Objectives and Terms of Reference:

The following objectives were formulated in consultation with the ad hoc Specialist Group who met in Denver on August 2, 1987, and with the inputs received from several members including Dr. H. Bouwer (U.S.A.), Mr. P. Odendaal (South Africa), Prof. R. Mujeriego (Spain), Dr. U. Neis (Brundi), Dr. C. Bartone (U.S.A.), and Dr. E. Smith (U.S.A.).

1. To address planning, economic, financial, institutional and legal aspects of wastewater reclamation and reuse.
2. To study wastewater reclamation technologies, reliability, and "appropriate technologies" for industrialized and developing countries.
3. To study water quality requirements and health considerations associated with non-potable and potable reuse.
4. To identify research needs for the future implementation of water reuse including analytical and toxicological monitoring techniques.
5. To exchange information and to develop international technology transfer mechanisms related to the above subjects.

Proposed Work Plan:

1. To inform all National Committees of the formation of the **Specialist Group on Wastewater Reclamation and Reuse**, and to request them to advise interested professionals in their respective country of the opportunity to Join.
2. To convene the inaugural meeting of the **Specialist Group on Wastewater Reclamation and Reuse** on July 19, 1988, 2pm - 5pm

at the IAWPRC's 14th Biennial Conference in Brighton, England, July 17-23, 1988. At the meeting, it is planned to elect officers (chairman, secretaries, managing committee members) and to prepare and approve work plan. In the meantime, Prof. T. Asano (U.S.A.) was asked to be the coordinator and the temporary Chairman. Subsequently, Prof. Asano asked for the assistance of Dr. U. Neis (Burundi) and Dr. E. D. Smith (U.S.A.) to serve as temporary Secretaries.

3. To establish a close liaison with the American Water Works Association Research Foundation (AWWARF), administrator of the Water Reuse Symposium series held in the U.S.A. Prof. Asano is a member of the Water Reuse Advisory Committee to AWWARF. The next Water Reuse Symposium is planned for the spring of 1990, possibly in Orlando, Florida, U.S.A.

4. To prepare and finalize an agenda for the Brighton meeting, including procedures for establishing a management committee and electing officers.

5. To publish a water reuse related newsletter (semi-annual), consisting of country reports, membership news, professional activities, relevant publications, and other news items of international interest.

6. To prepare for a one-day seminar on wastewater reclamation and reuse at the IAWPRC's 15th Biennial Conference in 1990 in Kyoto, Japan.

Agenda for the Inaugural Meeting in Brighton, England

Proposed Date and Time: July 19 (Tuesday), 1988, 2pm - 5pm
(At the 14th IAWPRC Biennial Conference, July 17 - 23, 1988)

1. Introduction of members (5 min. each)
(Name, affiliation, country; Why you are interested in this Group? What you would like to do? Do you want to be an officer? How much time are you willing to spend for this Group? etc.)

2. Discussion of the objectives and terms of reference
(What to accomplish in this Group, industrialized vs. developing country applications, appropriate technology. Should we include industrial waste and recycling?)

3. Election of management committee: Chairman (1), Secretary (1 or 2), Managing committee members (5).

(It was suggested by Mr. P. Odendaal (South Africa) that we should follow a fairly formal procedure with a sealed nomination and voting form to elect officers prior to the inaugural meeting on July 19, 1988, in Brighton, in order to avoid any undue criticism. Or, do you feel comfortable to vote officers by a "show of hands" by the members who attend the Inaugural meeting? What do you do about the members who can not be there? **(Please let Prof. Asano know about your preference.** His address: Prof. T. Asano, 1125 Dartmouth Place, Davis, California 95616, U.S.A.).

4. Proposal for a one-day seminar on water reclamation and reuse at the 15th IAWPRC Biennial Conference in 1990 in Kyoto, Japan. The seminar will be a concurrent session with the 15th Biennial Conference with an expert, state-of-the-art series of lectures with pre-selected speakers. The seminar proceedings are planned to be published as a special edition of Water Science and Technology.

Proposed Program for the One -Day Seminar
Kyoto, Japan, 1990

- a. Introduction
- b. Overview of Wastewater Reclamation and Reuse
- c. Health Aspects of Wastewater Reuse (including regulations)
- d. Wastewater Reuse for Agricultural and Landscape Irrigation
- e. Groundwater Recharge with Reclaimed Wastewater
- f. Wastewater Reuse for Potable Purposes
- g. Application of Reclaimed Wastewater for Industrial Cooling
- h. Recycling of Reclaimed Wastewater in Buildings and Regional Facilities
- i. Wastewater Reuse in Aquaculture
- j. Low-Cost Wastewater Treatment via Ponds and Lagoons for Developing Countries
- k. Recent Development in Membrane Technologies Applicable to Wastewater Reclamation and Reuse
- l. Adjourn

5. Optional Cocktail Party and Dinner, 6:30 pm - 9:30 pm.