

法規名稱：(終)CPES PROJECT TO. 2 JOINT RESEARCH ON THE HEALTH EFFECTS OF ARSENIC  
(AD.1989.7.20)

終止日期：民國 81 年 07 月 19 日

CPES PROJECT NO. 2 JOINT RESEARCH ON THE HEALTH EFFECTS OF ARSENIC

Pursuant to the "Guidelines for a Cooperative Program in the Environmental Sciences" between the American Institute in Taiwan (AIT) and the Coordination Council for North American Affairs (CCNAA), dated November 3, 1987, the U. S. Environmental Protection Agency (USEPA) acting on behalf of AIT, and the National Science Council (NSC), acting on behalf of CCNAA, will jointly conduct a research project on the health effects of arsenic. The project will begin on the date of the signing of this agreement and will be effective for a period of three years unless otherwise terminated at the request of one of the contracting parties or extended upon the agreement of both contracting parties. Details of the project, which will be identified as CPES Project No .2, are contained in Attachment No. 1 of this agreement.

FOR AIT :

[Signed]

(name)

Deputy Managing

Director

(title)

July, 20, 1989

(date)

FOR CCNAA.

[Signed]

(name)

Representative

(title)

June 30, 1989

(date)

ATTACHMENT TO CPES PROJECT NO. 2 JOINT RESEARCH ON THE HEALTH E-

## EFFECTS OF ARSENIC

### 1 Background

In June 1988 a team from USEPA visited Taiwan to discuss research on the health effects of arsenic that would be of mutual interest to the USEPA, NSC, Taiwan Environmental Protection Administration, Academia Sinica, National Taiwan University Medical School and National Cheng Rung University medical School. As a result of that visit, we did not agree on any specific research area at the time of visit. Several areas of research were thought worthy of investigation.

### 2 Project Details

Initial areas for joint research will be as follows :

- a The collection and analysis of data regarding exposure to wellwater in the endemic area for those individuals included in recent epidemiologic studies of arsenic ingestion and internal cancer.
- b The collection and analysis of data regarding the presence of arsenic in foodstuffs that are produced in the endemic area.
- c The implementation of a collaborative study to investigate oncogene activation in arsenic induced tumors. Such a collaborative study will entail the identification and supply of appropriate tissues and a delineation of the relative roles of researchers in Taiwan and the United States.
- d The investigation of the potential of people in endemic areas to methylate arsenic and whether susceptibility to arsenic induced disease is related to the ability to methylate and excrete arsenic. Additional areas for joint research will be the subject of addenda to this Attachment to CPES Project No.2.
- e Cancer dose-response assessment of migrants who moved into and out of the endemic area.

### 3 Responsible Parties

- a USEPA will be responsible for implementation of the joint research project in the United States on behalf of AIT.

b NSC will be responsible for implementation of the joint research project in Taiwan on behalf of CCNAA.

#### 4 Funding

a USEPA will be responsible for the salaries and support costs of its personnel involved in implementation of the joint research project in the United States. USEPA will absorb any administrative costs involved in arranging visits to the United States by researchers from Taiwan for orientation and / or training. USEPA will also be responsible for the international travel costs of USEPA personnel who visit Taiwan in connection with implementation of the project.

b NSC will be responsible for the salaries and support costs of its personnel involved in implementation of the joint research project in Taiwan and for ensuring that cooperating institutions in Taiwan will be responsible for the salaries and support costs of their personnel involved in implementation of the joint research project. NSC will absorb any administrative costs involved in arranging visits to Taiwan by USEPA personnel for orientation and / or training. NSC will be responsible for the international travel costs of personnel from Taiwan who visit the United States in connection with implementation of the project and for the expenses of such personnel while they are in the United States.

FOR AIT :

[Signed]

(name)

Deputy Managing

Director

(title)

July 20, 1989

(date)

FOR CCNAA :

[Signed]

(name)

Representative

(title)

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