

ACTION SHEET 1

Pursuant to PROJECT ANNEX 2

of the Implementing Arrangement between the United States and Argentina for technical exchange and cooperation in the area of peaceful uses of nuclear energy

COOPERATION IN THE FIELD OF BORON NEUTRON CAPTURE THERAPY

Based on the scope and objectives define in Project Annex 2 and the discussions between Argonne and CNEA, the parties have agreed to pursue the following tasks, subject to the availability of funds:

1. 5-day visit from the United States to Argentina by Dr. Otto K. Harling of the Massachusetts Institute of Technology (MIT):
 - Dr. Harling coordinates the BNCT project in the New England Medical Area and is an expert in developing epithermal beams, as well as in designing and constructing fission plate converters (FPCs). In addition, he has broad experience in patient treatment and in other technical aspects of BNCT.
 - The visit would consist of three days in Buenos Aires and two days at the Bariloche Atomic Center for technical discussions, seminars, and facility tours. Dr. Harling would meet with teams working with the RA-1, RA-3, and RA-6 reactors, as well as the TANDAR accelerator to discuss epithermal neutron beam generation and development of a FPC at RA-1.
2. 1 O-day visit from the United States to Argentina by Dr. Guido Solares of Harvard University and MIT.
 - Dr. Solares is an expert in developing the Medical Physics involved in BNCT. He has been involved in the development of BNCT at MIT and Harvard hospitals since the revival of the BNCT clinical trials in the 1980's. CNEA scientists expect to acquire basic knowledge about the calculations used in BNCT and details about dosimetric measurements. Dr. Solar-es will also provide instruction in conducting Medical Physics follow-ups of BNCT patients. The visit program would include trips to the reactors in the Buenos Aires and Bariloche areas, the dosimetry laboratory at the Ezeiza Atomic Center, as well as conduct of technical discussions and seminars with groups at each center.
3. 3 to 5-day visit from the United States to Argentina by Dr. Aidnag Z. Diaz of SUNY Stony Brook.
 - Dr. Diaz was in charge of the oncological aspects of the clinical trials at Brookhaven National Laboratory, and is currently investigating the feasibility of applying BNCT to tumors other than gliomas, an area of interest for CNEA. The purpose of the visit would be to hold discussions on clinical trials, conduct seminars, conduct seminars, and

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contribute toward formation of an Argentinean clinical team that will support the experimental work leading up to patient treatment and will prepare for implementation of clinical trials in Argentina.

4. 2-week visit from Argentina to the United States by Dr. Mandy Schwint, a senior scientist at the Constituyentes Atomic Center (CAC) to Professor Rolf Barth's laboratory at Ohio State University.
5. Coordination of meetings for ANL and CNEA attendees of the Neutron Capture Therapy for Cancer Symposium to be held in La Jolla, California from 13 - 18 September, 1998. Alternatively, one or two CNEA scientists could visit ANL after the symposium to establish contacts and determine areas of common interest.

The technical points of contact for this project are:

Argonne National Laboratory

Peter Heine
Argonne National Laboratory
9700 South Cass Avenue, TD/3 15
Argonne, IL 60439

Pheine@anl.gov
630.252.6612
630.252.7308 fax

CNEA

Dr. Sara J. Liberman
Coordinadora Proyectos Radioisotopos y
Radiaciones
Gerencia de Tecnologia
Comision Nacional de Energia Atomica
Avda. del Libertador 8250
Buenos Aires 1429
Argentina

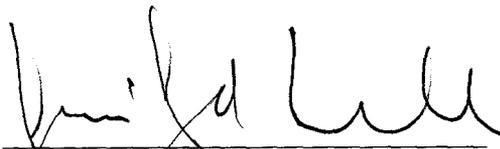
liberman@cnea.edu.ar
(541)704-1349
(541)704-1 193/94 fax

APPROVALS



DOE Principal Coordinator
7-1-98

Date



CNEA Principal Coordinator
August 11th, 1998

Date