

EXPERT'S PROFILE



Name of Grantee : DR. AMADOR C. MURIEL

Area of Expertise : Theoretical Physics

Inclusive Date of Contract as BSP Awardee : April – June 2009
Short-Term Program

Host Institutions : University of the Philippines Diliman
National Institute of Physics (primary)
Department of Chemical Engineering(secondary)

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EDUCATIONAL BACKGROUND

- Ph.D. in Physics, State University of New York, Stony Brook, 1967
- M.A. in Physics, State University of New York, Stony Brook, 1965

PRESENT POSITION

- IN INFORMATION TECHNOLOGY:

Founder and President

Data Transport Systems

- a 20-year old IT consultancy firm with activities in New York and Geneva since 1986. The company has served several United Nations agencies like WHO, ITU, UNICEF, UNIDO, UNDP, WFP, and other non-profit international organizations in Vienna, Copenhagen, Geneva and New York using small and large distributed databases

Responsible for two major theoretical contributions in physics:

- Time evolution of the one dimensional gravitational gas, published in several papers in Astronomy and Astrophysics
- Theoretical origin of the onset of turbulence, published in Physica D, JETP Letters, and several conference proceedings.

and in econophysics:

- Theoretical and practical model for foreign currency trading, used by Data Transport Systems, and under evaluation by UBS Warburg, Geneva, trading arm of Union Bank of Switzerland

To be accomplished as BSP Awardee:

1. Continue the NIP-based research initiatives using as guide the recently published Physica A paper (D1);
2. Continue the NIP-based research initiatives using as guide the recently-accepted JVST paper (D2); and
3. New initiative on the application side of the molecular theory of turbulence.
(please refer to the attached Terms of Reference)