

Workshop on Developing the Safety Infrastructure for a Research Reactor in an Emerging Nuclear Power State

7-11 March 2011



White Deer at Argonne

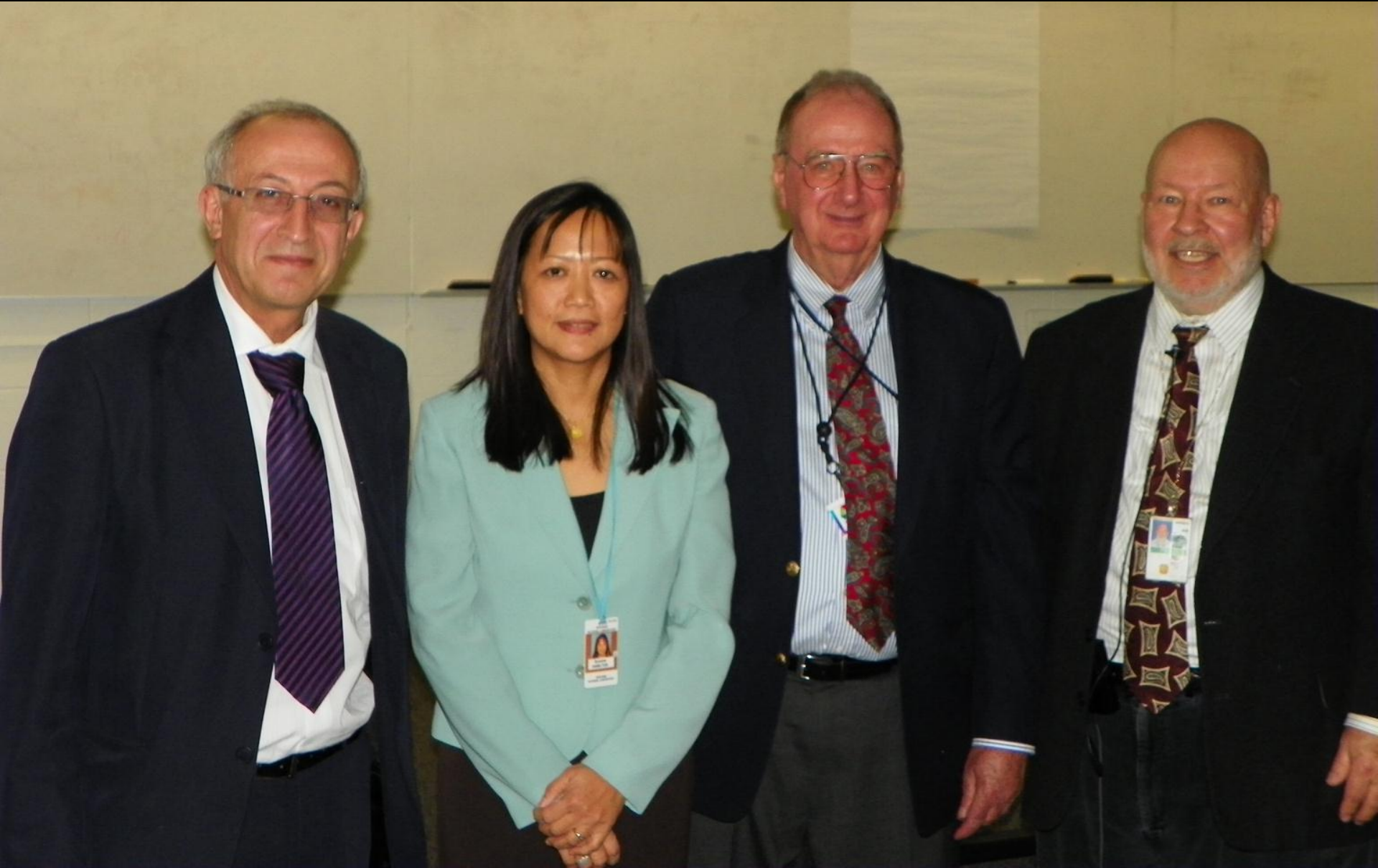




IAEA/Argonne
Workshop on Developing the Safety Infrastructure for a
Research Reactor in an Emerging Nuclear Power State

Executive Staff

Hassan Abou Yehia, Sunaree Hamilton, L. Walter Deitrich, Joseph Braun





ROSEN

PROHIBIDO FUMAR NO SMOKING

POWERIA
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Hassan Abou Yehia



DEFINITIONS

- **SITE:** The area containing the facility, defined by a boundary and under effective control of the facility Management.





EXIT

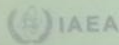
NOTES

PROHIBIDO FUMAR NO SMOKING

Power
[Handwritten notes on a whiteboard]

Effects of the Installation on the Region

- Dispersion of Radioactive Material Through Groundwater
 - A description of the groundwater hydrology of the region shall be developed.
 - Hydrogeological investigations shall be carried out to assess radionuclide movement, including migration and retention in soils, dilution and dispersion in aquifers, properties of underground materials related to transfer of radionuclides in groundwater and related exposure pathways.
 - The impact of groundwater contamination on the population shall be assessed.



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L. Walter Deitrich







William “Duke” Kennedy

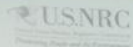
different aspects of nuclear regulation

- Part 20, “Standards for Protection Against Radiation”
- Part 50, “Domestic Licensing of Production and Utilization Facilities”
- Part 51, “Environmental Protection Regulations for Domestic Licensing and Related Regulatory Functions”

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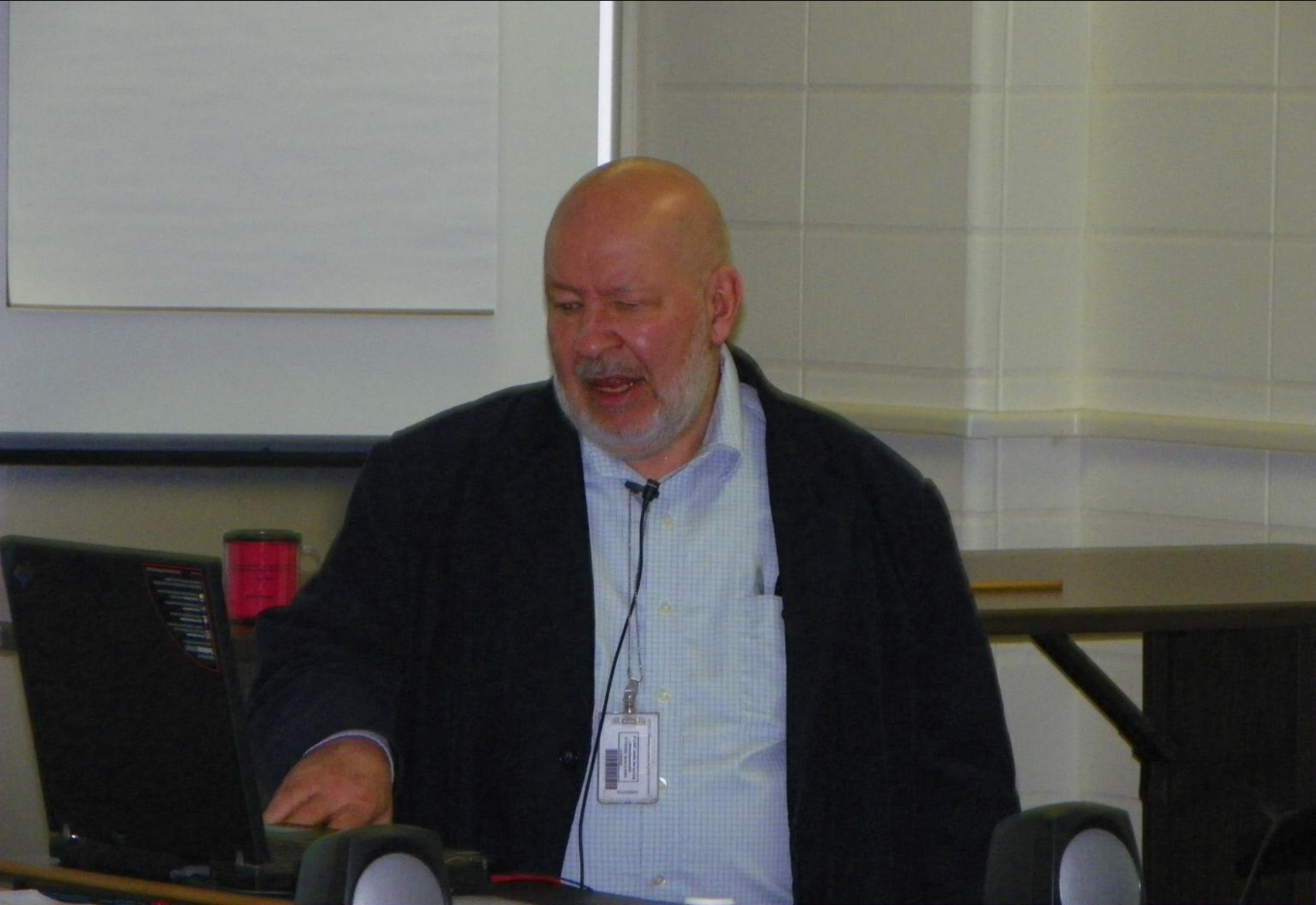


Code of Federal Regulations (2/3)

- 10 CFR contains separate Parts for different aspects of nuclear regulation
 - Part 20, "Standards for Protection Against Radiation"
 - Part 50, "Domestic Licensing of Production and Utilization Facilities"
 - Part 51, "Environmental Protection Regulations for Domestic Licensing and Related Regulatory Functions"



Joseph Braun



Abdelmajid Caoui

CNESTEN

Project Team organization

Setting up a Team Project :

- Reactor staff
- Scientific and nuclear techniques staff
- Civil engineering
- Safety team
- Contract team



Key implication of the Team Project with the contractors :

- Clear expression of the CNESTEN needs specification
- Feedback from operators of equivalent facilities in the world
- Environmental constraints of the CENM location
- Economic optimization of the project
- Safety issues

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 CRESTEN

Project Team organization

- ▶ **Setting up a Team Project :**
 - Reactor staff
 - Scientific and reactor technique staff
 - Civil engineering
 - Safety team
 - Contract team
- ▶ **Strong implication of the Team Project with the contractors :**
 - Clear expression of the CRESTEN needs specification
 - Feedback from operators of equivalent facilities in the world
 - Environmental constraints of the CEM location
 - Economic optimization of the project
 - Safety issues



A man in a dark suit is standing at the front of the room, presenting to the audience.

A man in a dark jacket and light-colored trousers is standing on the left side of the room, looking towards the front.

An audience of approximately 20 people is seated in rows of black chairs, facing the front of the room. They are listening to the presentation.



Time For A Break



EXIT







NOTICE
DO NOT SMOKE
IN THIS AREA





Feedback Session











Document displayed on the projection screen, containing text and possibly a diagram or table.

Handwritten notes on a whiteboard, including the words "NEXT TIME" and "2.0000".



Participants Receive Certificates



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**Yasser Elsayed Tawfik
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Simon Adu





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Ekua Mensimah



03/13/2011
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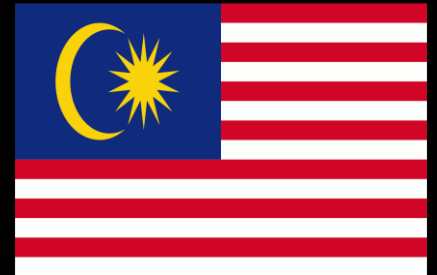




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**Khairuddin
Mohamad Kontol**

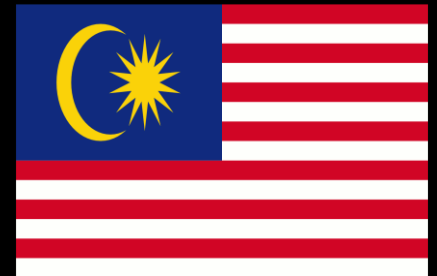




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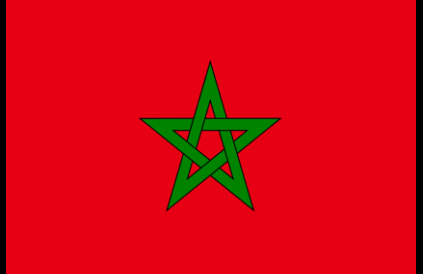




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Abdelmajid Caoui

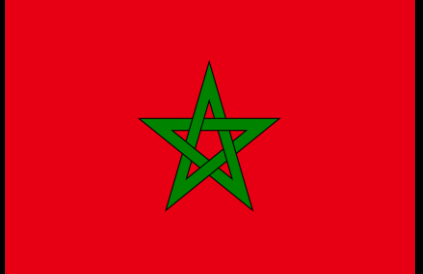




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Bouzekri Nacir





Man in dark suit and glasses shaking hands with the man in the beige sweater.

Woman in light blue jacket standing between the two men shaking hands.

Man in beige sweater shaking hands with the man in the dark suit.

Man in dark suit and glasses standing to the right, looking on.

Return Cart to: Media Service

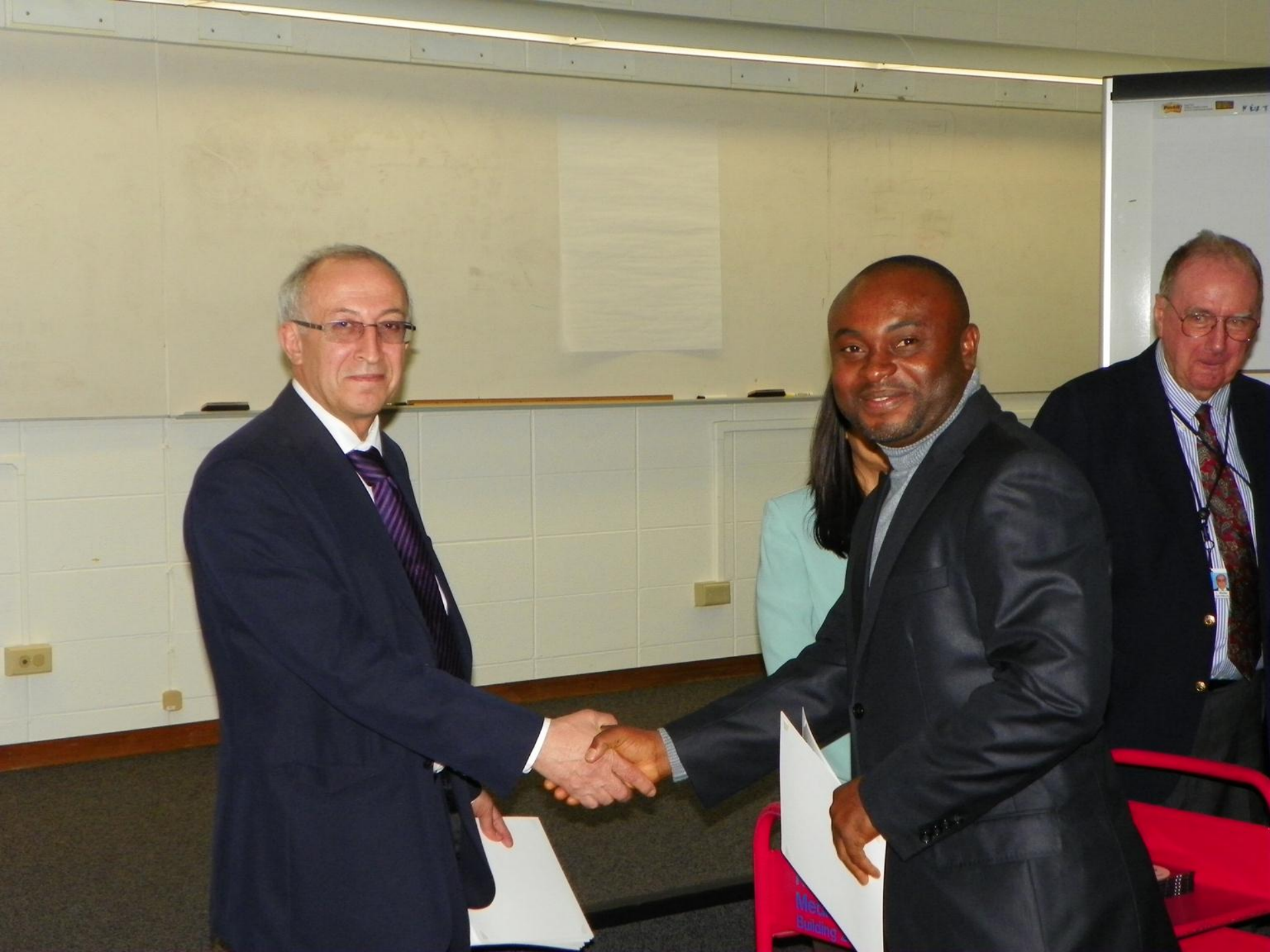
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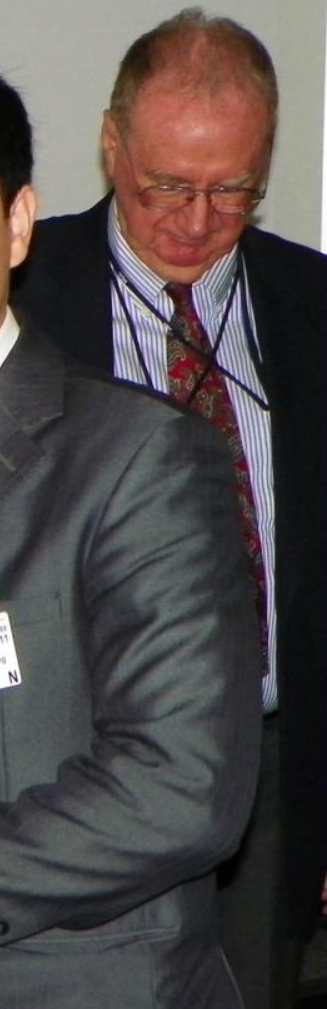


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Hao Quang Nguyen





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Cao Su Trang





Return Cart to:
Media Services
Building 232

Celebrating a Job Well Done

The background is a dark blue gradient that transitions to a lighter blue at the bottom. A piece of bright blue fabric is draped across the bottom of the frame, creating a curved, celebratory shape.











Farewell Friends

