

Managing the Partnership III: A Non-MRSEC Network Perspective



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Partnerships for Research and Education in Materials (PREM)
Light Matter Interactions: Theory and Applications" (LMITA)



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Pre-History:

Centre for Structural Studies, Russian Academy of Sciences 1975-1996

UGA – Computational Center for Molecular Structure and Design 1992, 1994, 1995

Alliance for Non-linear Optics (NASA) - 7 universities - 1996-2004

**STC Materials and Devised for Information Technology Research - 2002-2012
~10 universities NSF/DMR**

**MRI Acquisition of New Single Crystal X-Ray Diffraction System for
Teaching/Research Laboratory NSF/DMR - 2004**

NMHU Center for Structural Studies - 2005

RIMI Infrastructure support for minority institutions NIH - 2004-2009

**UCF/NMHU CRC Self-Organized Aggregates in Photonics (SOAP) NSF/CHE –
2008 -2012**

**PREM NMHU -- Georgia Institute of Technology -- Morehouse College 2009
NSF/DMR**



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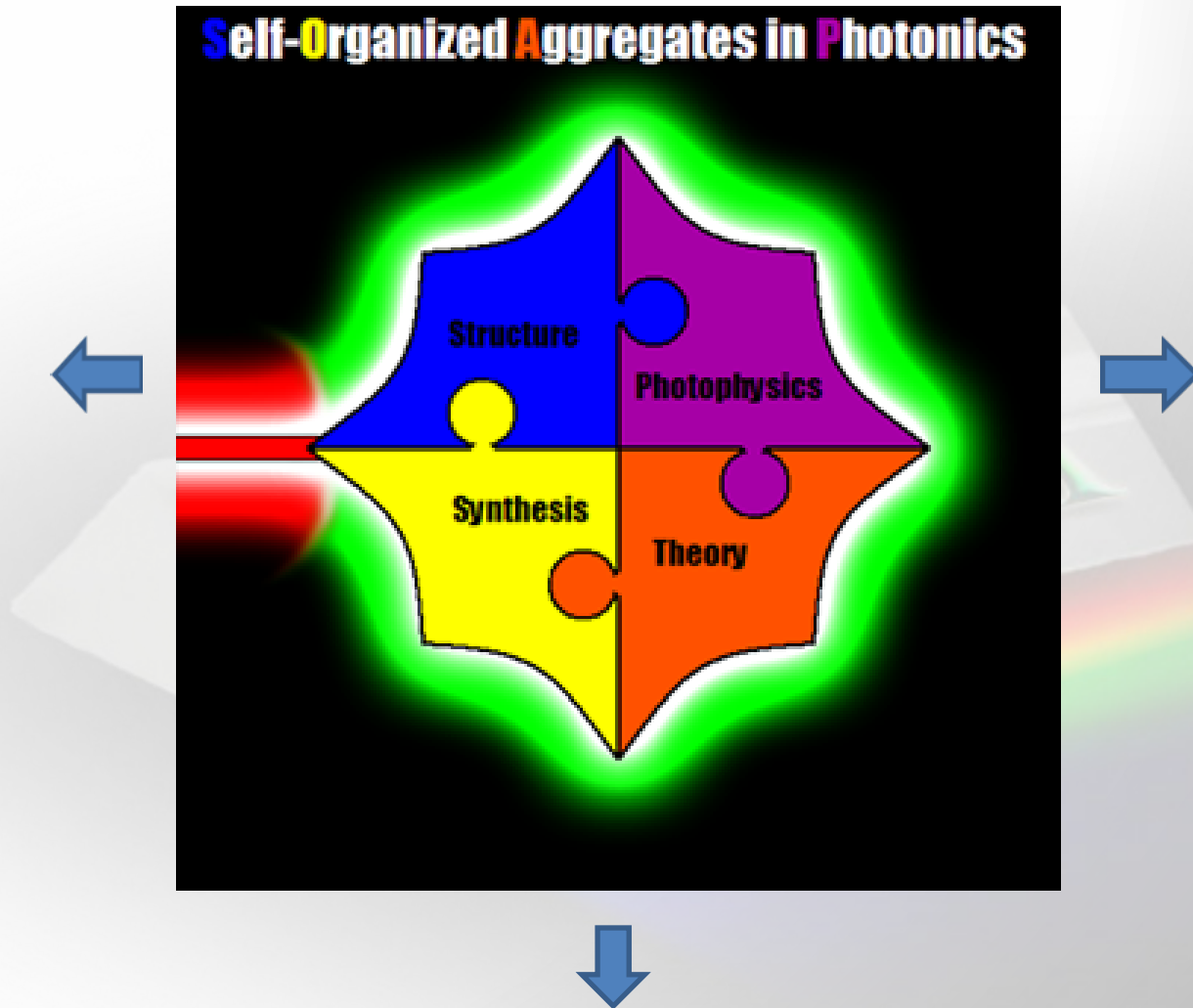
Types of Research Collaborations

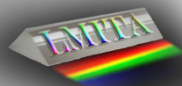
Same area of expertise
Mentorship
Unique research facilities
Unique skills

Complimentary areas of expertise
Separation of labor – team work

Every portion of work done by who can do it best

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Collaborators Outside PREM

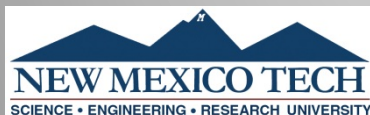


Prof. Kevin D. Belfield, University of Central Florida,
Department of Chemistry; Orlando, FL



Dr. Hongwu Xu, Dr. Qiang Wei;
Los Alamos National Laboratory; Los Alamos, NM

Prof. Bilal Kaafarani, American University of Beirut,
Department of Chemistry; Beirut, Lebanon



Prof. Alexander Kornienko, New Mexico Tech,
Department of Chemistry

Prof. Irina Odinetz, Russian Academy of Sciences;
Institute of Organoelement Compounds; Moscow, Russia



Prof. Jonhua Luo, Chinese Academy of Sciences,
Fujian Institute of Research on the Structure of Matter;
Fujian, China

Prof. Peter C. Vollhardt, UC Berkeley, Department of
Chemistry



Fred Unterseher, Rebecca Deem; Diffractive Optics /
Holography; Santa Fe, NM

Most of collaborations are
related to NMHU Center
of Structural Studies - 2005





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Georgia Tech:

- [Jean-Luc Brédas Group](#)
- [Bernard Kippelen Group](#)
- [Joseph Perry Group](#)
- [John Reynolds Group](#)
- [David Bucknall Group](#) (Materials Science and Engineering)
- [Baratunde Cola Group](#) (School of Mechanical Engineering)
- [Jennifer Curtis Group](#) (School of Physics)
- [Samuel Graham Group](#) (School of Mechanical Engineering)
- [Elisa Riedo Group](#) (School of Physics)

Europe and Asia:

- [Harry Anderson Group](#) (Oxford University)
- [Chantal Andraud Group](#) (Laboratoire de Chimie de l'ENS Lyon)
- [Thomas Anthopoulos Group](#) (Imperial College London)
- [Pierre Audebert Group](#) (ENS Cachan)
- [Udo Bach Group](#) (Monash University)
- [Michael Graetzel Group](#) (Ecole Polytechnique Federale de Lausanne (Switzerland))
- [Manfred Eich Group](#) (Technische Universität Hamburg-Harburg)
- [Zhao-Hui Wang Group](#) (Xiamen University)
- [Xiaowei Zhan Group](#) (The Chinese Academy of Sciences)

Seth Marder's Collaborators - NMHU PREM Partner

United States:

- [Neal Armstrong Group](#) (University of Arizona)
- [Jeanne Pemberton Group](#) (University of Arizona)
- [Larry Dalton Group](#) (University of Washington)
- [David Ginger Group](#) (University of Washington)
- [Alex Jen Group](#) (University of Washington)
- [Antoine Kahn Group](#) (Princeton University)
- [Michal Lipson Group](#) (Cornell University)
- [Nasser Peyghambarian Group](#) (University of Arizona)
- [Eric Van Stryland Group](#) (University of Central Florida, CREOL)
- [Tatiana Timofeeva Group](#) (New Mexico Highlands University)





How to built network:

Research Conferences
Mutual Friends/Coworkers
Former Colleagues and Students
Social and Professional Networks
Internet Search Engines

How to use built network:

Invitations, Presentations, Lectures
Education, Internships, Jobs for students
Partnership in Research
Partnership in Collaborative Projects



How to support created network:

Have mutual long term interests

Have defined plan of actions to particular extent that possible in science with evaluation of risk and flexibility to change direction

Regular in person meetings – conferences, lecture exchange....

Long living network exists if all parties keep their promises in timely manner

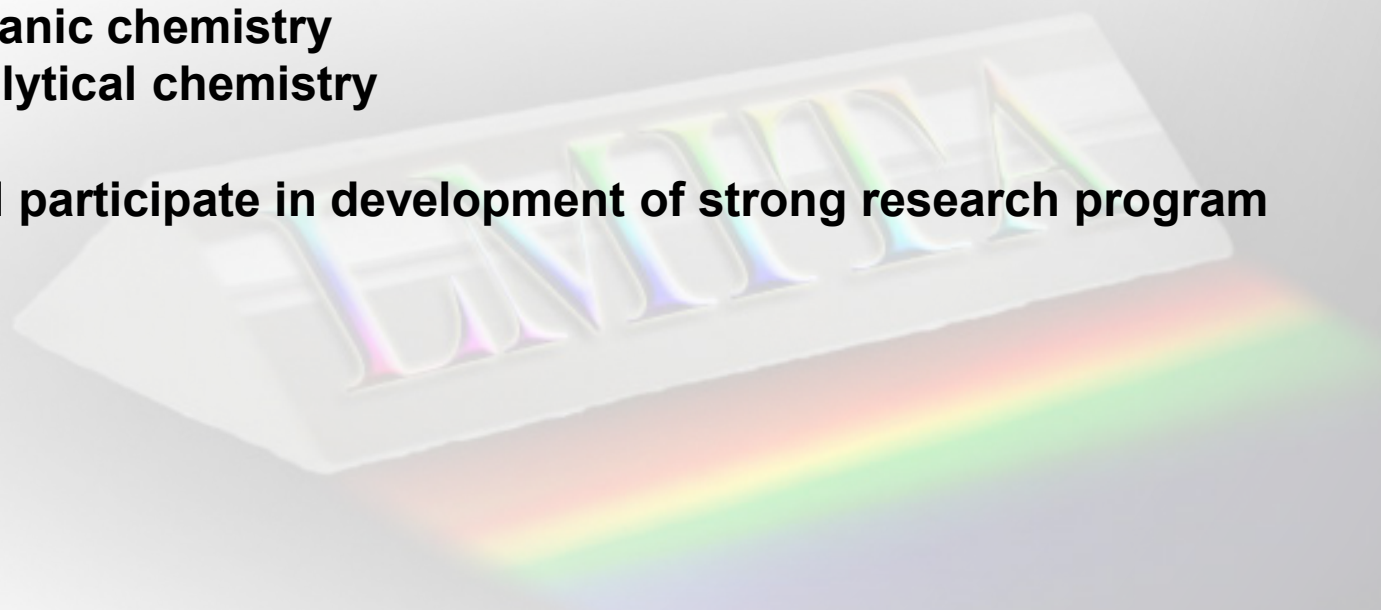
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**We are interested in young dedicated recent PhD graduate willing to join
Small rural relatively well equipped university in beautiful nature
environment to teach**

**Organic chemistry
Analytical chemistry**

And participate in development of strong research program





Questions you Can Help me with:

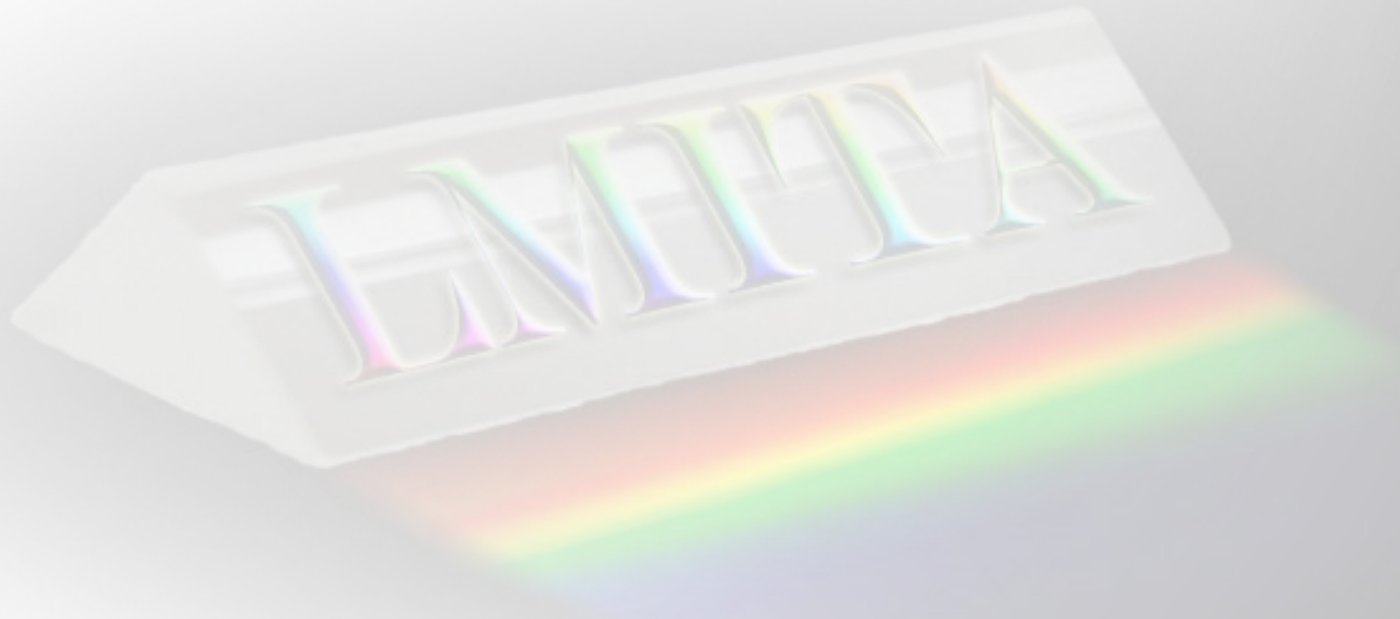
Approach of your group to manage network connections

If More results and longer network connections expected from collaboration in the same or different areas of expertise?

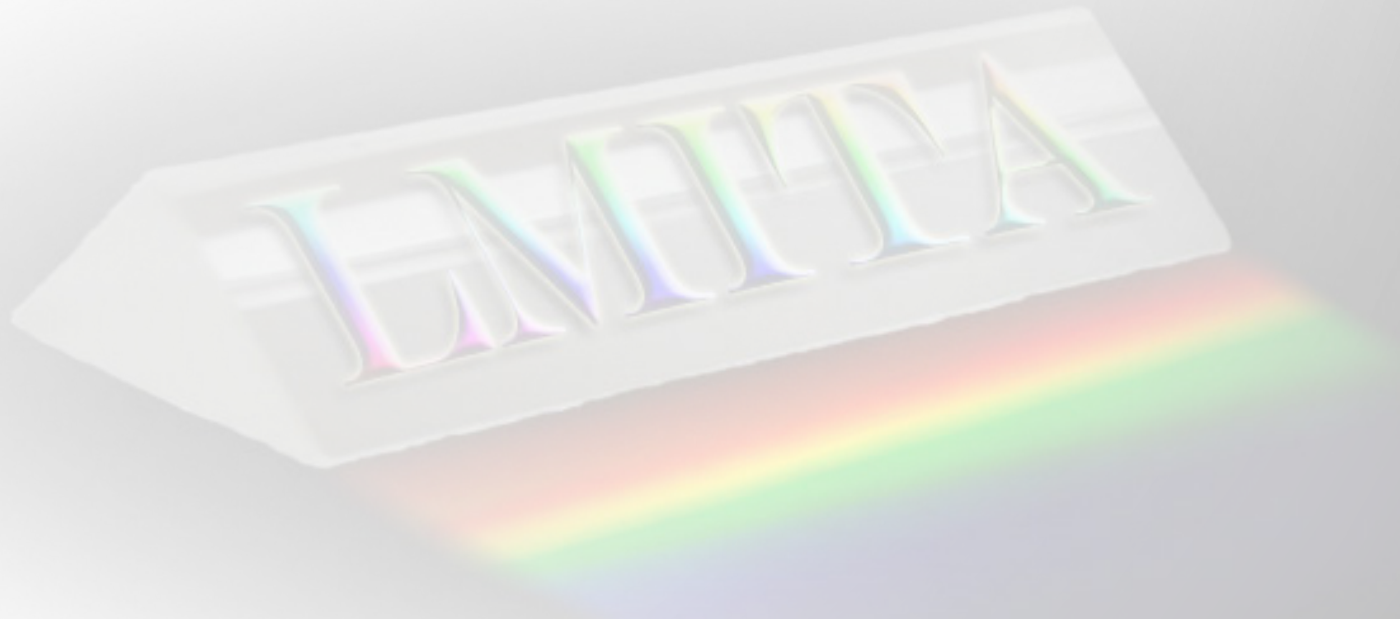
How useful is creation of network for collaborative and individual projects?

Your approach to find the most important ways to create sustainable research network

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