Dr. Elisabeth S. Knowles, PhD in Dec. 2013
*Strain-Mediated Photomagnetic Effects in Prussian Blue Analogues, NOW @ ClearOne in Alachua, FL*

Pedro A. Quintero, PhD in August 2015
*Magnetic and Electrical-Transport Studies of Molecule-based Magnets, NOW @ Intel in Oregon*

Marcus K. Peprah, PhD projected in 2015
*Influence of Pressure and Light on the Magnetic Properties of Prussian Blue Analogues and Hofmann-like Frameworks, NOW @ Intel in Oregon*

Dr. Tatiana V. Brinzari, PhD in Chemistry 2012 (UT-Knoxville)
*Postdoc Projects: Photomagnetic Effects in Magnetic Nanoparticles and in Heterostructures of Prussian Blue Analogues, NOW @ Palmolive in New Jersey*

**Graduate Students Openings for you!**

**Undergraduate Students Video available!**

Recruiting Pitch of 22 July 2014: “Magnetolomics”
Spring 2011: “in the woods”

(L to R) Elisabeth Knowles, Dan Talham, Olivia Risset, Mattheiu Dumont, Marcus Peprah, Matt Andrus, Carissa Li, Divya Rajan, MWM, Corey Gros, Yitzi Calm, Akhil Ahir, Pedro Quintero

Talham – Meisel Chemistry-Physics Group Retreats

Fall 2014: “at the beach”

(L to R) Corey Gross, Tatiana Brinzari, Ashley Felts, Dan Talham, Olivia Risset, Caue Fervaro, Carolyn Averback, Akhil Ahir, Carissa Li, MWM, Divya Rajan, Pedro Quintero, James Sternberg, Marcus Peprah, Mack Turvey

New heterostructures of molecule-based magnets....

... and Co-Fe oxide core@shell heterostructured nanoparticles!

D. M. Pajerowski et al., *JACS* **132** (2010) 4058

Work supported by the National Science Foundation (NSF) via DMR-1202033 (MWM) and DMR-1157490 (NHMFL), the UF Division of Sponsored Research through the UF Center for Tomorrow’s Materials (Today!).

Spin Crossover Fe(II) complexes on nanopatterned Au substrates?

*aka* “Magnetolomics”

NOT found via Google

02 December 2013
http://www.phys.ufl.edu/~meisel/pubs.html

But there is more brewing…

Quantum Spin Chains and Planes
MnF(salen) an $S = 2$ Haldane Chain (NOT!)
$[Ni(HF_2)(3-Clpy)_4]BF_4$ an $S = 1$ chain with $D/J = 1$?
(a new Quantum Critical Point?)

Center for Extreme Magnetic Field Science
Processing in high fields and gradients
(access to new phases of “old” materials?)

Biological Physics
Arrest bacterial slime growth in high magnetic fields
(a new therapy to fight #*%!osis?)

aka “Magnetolomics”
NOT found via Google

02 December 2013
Come to Group Meetings as soon as possible …

enjoy **Safety Training**, science discussions, manipulation of cryogenic fluid, … and then…

Ready for Magnetolomics at:

**UF NPB B133-135**

**NHMFL @ UF, FSU, LANL**

**SNS and HFIR @ ORNL**

Date: 1564
Title: Floridae
Cartographer: Jacques Le Moyne de Morgues

http://scholar.library.miami.edu/floridamaps/first_spanish_period.php

We are, by our nature, explorers…

Curiosity Driven…
Hypothesis Driven…
Device Inspired…
Fame and Fortune…
(insert your reason here)