NORTH AMERICAN PARTNERSHIP FOR PHOSPHORUS SUSTAINABILITY

Currently being established and defined for a launch in May 2015

Initial leadership:  Jim Elser, Helen Rowe, David A. Vaccari, Bruce Rittmann, Andrew Sharpley

In partnership with ESPP, Chris Thornton
The Phosphorus Sustainability Research Coordination Network (P-RCN) was created in 2013 with a grant from the US National Science Foundation. Centered at Arizona State University. The P-RCN seeks to link research with stakeholder needs. NAPPS proposed at the 2nd P-RCN meeting – Jan 2014.
The goal of NAPPS is to work actively with stakeholders to foster and implement sustainable P solutions in public and private sectors.

- NAPPS will identify and endeavor to alleviate key bottlenecks for decision-making, policy, and implementation of P efficiency and recycling technologies and strategies.

- NAPPS will create an operational approach to facilitate business, policy and regulatory developments, implement projects, and translate research progress into phosphorus management actions.

- **Stakeholders include** national and local policy makers, regulators, planners and officials, representatives of agriculture, mining and other industry, and academia.
Niche for NAPPS

- NAPPS aims to be a lasting structure focused on the long-term implementation of P sustainability solutions in North America

- NAPPS will engage stakeholders with each other

- NAPPS will be a resource for creating and mobilizing a network, project development, finding funding for projects to address identified priorities

- NAPPS will collaborate, building on and work with other P sustainability organizations, e.g. ESPP, Global P summit, Global P Network, UN-GPNM
NAPPS activities and stakeholder recruitment will be organized around these four themes:

1. P Recycling

2. P Efficiency in Food Production

3. P Demand: Population, food choice, bioenergy

4. P and Water Quality
Representative Activities

1. **Develop a common vision**
   for creating a sustainable P cycle in North America

2. **Identifying and helping** businesses and other organizations respond to opportunities offered by challenges in P management and emerging research in P sustainability

3. **Building networks**
   between different interest groups and sectors related to phosphorus management

4. **Evaluating new P efficiency and recycling technologies**, including feasibility, availability of suppliers, cost/benefit analysis, and life cycle analyses

5. **Fostering implementation of new technologies**
   by improving the efficiency of business value chains

6. **Assessing and facilitating regulatory development** pertaining to phosphorus management, including waste, environmental, discharge, and agriculture to improve P sustainability

7. **Representing stakeholders**
   North American phosphorus managers and innovators in international meetings and initiatives

8. **Preparing funding proposals**
   for demonstration projects and integration and dissemination of new technologies and concepts
Funding:

Current “start up” funding is from Arizona State University

Investment from future partners:
• P-recycling or P-engineering companies
• Agricultural companies: crops, seeds, feeds, crops
• Livestock industry, manure processing
• Biofuels companies
• Water and waste utilities and companies
• Food processing & retailing industry
• Municipalities, local and state authorities
• Gov’t agencies: USDA, EPA

Phosphate Rock