Northwestern Scholars – Adding URIC Faculty Membership

*URIC Administrative Leadership Meeting*

Jan. 16, 2019

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- Northwestern Scholars - Overview
- URIC Faculty “Membership” – Background & Pilot
  - Chemistry of Life Processes
  - ISEN
  - Buffett Institute
- Implementation Plan
Northwestern Scholars - Overview

University’s research profiling and networking platform
https://www.scholars.northwestern.edu/
Northwestern Scholars - Overview

• Public-facing portal
• Administrative backend
  – Includes the data, configurations (e.g., what is or isn’t shown on the portal), data update functions, reporting
• Content populated from: sources of authority, and manually when necessary
  – Person and organization data: myHR
  – Grant awards (can be publicly shown): InfoEd; reports from Lurie Children’s Hospital and Shirley Ryan AbilityLab
  – Research Output: Scopus and other import sources (e.g., PubMed) for publication data
  – FSM faculty database for FSM faculty manually added-data
    • e.g., education, research interests, research keywords, manually added publications not in Scopus or PubMed
  – Manually added where necessary
• Runs on Pure software platform
Currently

• **URIC**: appears when myHR has at least one person with an appointment in the URIC
• **Experts in URIC**: only those with URIC appointments in myHR
• **Grant awards of URIC**: when the URIC is the managing organization in InfoEd
• **Publications of URIC**: associated only if an author’s primary appointment is in the URIC
• **URIC collaboration network**: reflects coauthors of publications associated with the URIC
• **Research Concepts “Fingerprint”**: system generated, performing data mining on publications and grants associated with URIC that have abstracts
URICs in Northwestern Scholars

Reason to add faculty “Members” for URICs

- Current URIC representation misleading - shows only faculty with official appointments
- URIC membership on faculty profile: visibility of URIC
- Increased visibility and “discoverability” of URIC as an organization, with more complete profile
- Provide URICs with ability to easily generate reports of faculty members and their publications for various uses (e.g., annual report, reporting to board, etc.)
Membership Configuration

Key Considerations

• Consistent across all URICs
• Portal usability and understanding by users
• Reasonably maintainable by URIC and Northwestern Scholars teams
• Provide as much value as possible within given constraints
Pilot Testing

- Confirmed Advantages and Process for Key Components
- Revealed constraints
  - Adding Publications - issues
    - Collaboration network issues
    - Efforts required by URICs and Northwestern Scholars team
Membership Configuration – Resulting Plan

• Associate faculty members with URIC organization
  – Affiliations will appear in URIC portal and on individual faculty pages
• Grant awards appear when URIC is managing organization
• Not add publications
• Turn off “Fingerprints” – avoid misrepresentation
• Disclaimer in description explains limitations of what displayed
• Centers not in myHR: will manually add to/retire from Northwestern Scholars as needed
Advantages to URICs

• Increases visibility of URIC through Northwestern Scholars
• Much better situation than what currently exists (only faculty with appointments)
• Defined faculty list in Scholars will make back-end reporting for annual report and internal needs easier
• Can be quickly accomplished
Membership Configuration – Process

• URIC will need to provide Northwestern Scholars team with:
  – list of faculty members
    • Updates can be made on a regular basis (annual report time) plus ad hoc updates when desired
    • Will create Box folder for easy update notification
  – Detailed URIC information for portal profile
    • URIC description, address, link to URIC website, contact info
    • Default if no description provided: will use short description on Office for Research URIC web page
Chemistry of Life Processes Institute
Northwestern University
University Research Institutes and Centers

Fingerprint
The fingerprint is based on mining the text of the scientific documents related to the associated persons. Based on that an index of weighted terms is created, which defines the key subjects of research unit.

- Contrast Media
- Magnetic Resonance
- Imaging Techniques
- Magnetic Resonance Imaging
- Nanoparticles
- Gadolinium
- Gold
- Progesterone
- Chemical Compounds
- Chemical Compounds
- Engineering & Materials Science
- Chemical Compounds

Fingerprint concepts likely incomplete in reflecting research of URIC.

View full fingerprint
URIC Portal Page – Future Example

Demo- Chemistry of Life Processes Institute
Northwestern University
Test University Research Institutes and Centers parent

Email
dlp-info@northwestern.edu
Website
http://www.clp.northwestern.edu/

101 Experts

Organization profile

Research Output and collaboration Network display only a fraction of the activities of CLP. For more information about the scope of research taking place in CLP visit the individual faculty profiles and the CLP website.

Chemistry of Life Processes Institute (CLP) researchers use the technologies of tomorrow to discover the diagnostic methods and therapies needed to save lives today. Chemists, engineers, and physicists team with life scientists and clinicians to change how we diagnose and treat cancer, cardiovascular and kidney disease, infectious diseases, neurodegenerative diseases, and trauma. Their efforts are built on extraordinary tools for discovery, analysis, and visualization developed and housed within a unique ecosystem designed to support the integration of expertise and methods across many scientific disciplines. This transdisciplinary convergence of knowledge is creating new fields of research that will have a lasting impact on human health and disease.

CLP serves as the umbrella institute for the following centers:

- Center for Developmental Therapeutics (CDT) [website]
- Center for Molecular Innovation and Drug Discovery (CMIDD) [website]
- Chicago Region Physical Sciences and Oncology Center (CR-PSOC) [website]
- Proteomics Center of Excellence (PCE) [website]

Links to affiliated centers NU Scholars pages and websites

Fingerprint not shown since would be misleading
Can't turn off Collaboration network

Data in screenshot is for demonstration purposes only

Link to website, contacts, address generates map.
Faculty Portal Page - Current

Northwestern University | NORTHEASTERN SCHOLARS

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Citations

Overview  Fingerprint  Network  Grants (80)  Research Output (533)  Similar Profiles (6)

Personal profile

Research Interests
The properties and performance of materials - whether physical or biological or hybrid - are dictated by complex atomic and nanoscale architecture and associated phenomena. Our research is geared towards not only their understanding but manipulation and tailoring to yield favorable response and behavior. Such materials include nanostructures, especially inorganic/organic hybrids, and phenomena often revolve around various defects and their dynamic behavior. Thus, the core theme in Dravid group is the paradigm for "Form-Function" and "Structure-Property" relationship in diverse materials.

Education/Academic qualification
Material Science and Engineering, PhD, Lehigh University
... → 1990

Metallurgical Engineering, B.Tech, Indian Institute of Technology
... → 1984
Data in screenshot is for demonstration purposes only
Organization Hierarchy – Future Example

- Test University Research Institutes and Centers parent
  - Demo- Chemistry of Life Processes Institute
    - Demo- Center for Developmental Therapeutics
    - Demo- Center for Molecular Innovation and Drug Discovery
    - Demo- Chicago Region Physical Sciences and Oncology Center
    - Demo- Proteomics Center of Excellence
  - Demo- ISEN: Institute for Sustainability and Energy at Northwestern
    - Demo- ANSER: Argonne-Northwestern Solar Energy Research Center
    - Demo- Center for Catalysis and Surface Science
  - Demo- The Roberta Buffett Institute for Global Studies
    - Demo- Center for Forced Migration Studies
    - Demo - Global Poverty Research Lab
    - Demo- Institute for the Study of Islamic Thought in Africa
    - Demo- Keyman Modern Turkish Studies
    - Demo- Program of African Studies
Comments

• We understand the desire to have publications included
  – not feasible at this time due to capacity and resource limitations

• Will continue to explore solutions and have consulted with partners at other institutions to gather ideas for developing a sustainable workflow
Implementation Plan

• Proposed Timeline:
  – January 25: need updated member list and profile information from URIC (ideally received sooner)
    • If not received, will use last year’s member list and short description
  – February 4:
    • faculty members and profile updates made in Northwestern Scholars
    • Standard report formats created for pulling reports for Annual Reports
  – First week of February: report training and access to URIC designee for generating reports from NU Scholars
Questions, comments, suggestions?

Contact

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