# Michigan Tech

## **Continuous Improvement Using Lean Principles**

December 2016 Update

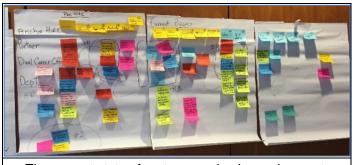
#### A Lean Collaboration

This fall, a diverse team of professionals worked together in a continuous improvement event to create standard processes and new procedures to address a roadblock to recruitment and retention success. The problem they faced was that



The team works on understanding the current state.

when a new faculty member came to Michigan Tech with a partner who was also seeking academic employment, we lacked an effective method for supporting this special recruitment and retention need.



The current state of partner academic employment.

The cross-functional team consisted of Provost and Vice President for Academic Affairs Jacqueline Huntoon, Dean Wayne Pennington (Engineering), Department Chair Cary Chabalowski (Chemistry), Department Chair Jason Carter (Kinesiology & Integrative Physiology), Director and University Librarian Ellen Marks (Van Pelt and Opie Library), Renee Ozanich (Human Resources), Carrie Richards (Dual Career), Lean Facilitator Kathy

Wardynski (Dining Services), and Rylie Store (student process improvement coordinator). They discovered that current initiatives for partners focused almost entirely on assistance at the time of the

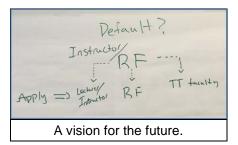
initial hire, rather than on a long-term plan for an academic career path. Without such a plan, dissatisfaction from both the faculty hire and the partner would sometime arise, resulting in the loss of good faculty hires, reducing retention rates, increasing recruitment costs, and wasting start-up funds.

The team recommended several improvements, including changes to faculty searches, interviewing, and hiring. In the future, departments will be able to



Improvements simplify the process.

take advantage of collective advertising opportunities. Advertising several positions at the same time will make potential partner positions easily visible. Faculty candidates will be invited to bring any person who is important to their decision making to campus with them, and best practices for partner hiring will be developed and shared.



This continuous improvement event was launched as part of a new approach the university is using to address university-wide initiatives like unit climate, dual careers, and faculty scholarship. The university calls this innovative strategic change model the Advanced Matrix Process for University Programs (AMP-UP). AMP-UP is a model process for collaborative, efficient decision making enabling a climate of inclusiveness and equity that empowers all members of the university community to reach their career goals.

#### **Lean Outreach and Connections**

- Library Wins Award that Includes Lean in Training. The Van Pelt and Opie Library received the H.W. Wilson Award from the American Library Association. The award is for the creation of professional development for library staff. Lean culture and tools will be included in the training on goal setting, time management, and decision making.
- Systems Control Visits. The vice president of operational excellence and two Lean coordinators
  from Systems Control in Iron Mountain came to benchmark Lean office and service at Michigan Tech.
  They toured Lean and continuous improvement projects and visual management in the Van Pelt and
  Opie Library and Auxiliary Services, including the Lean showcase Cash Hub. They also had
  informative discussions with campus Lean facilitators and the Office of Continuous Improvement's
  student process improvement coordinators.
- 18 Trainees in New Lean Facilitator Cohort. Eighteen Michigan Tech employees, representing the executive team areas of Academic Affairs (8), Administration (8), and Student Affairs and Advancement (2), began training to become volunteer Lean facilitators for Michigan Tech. The training is seven days long spread over six months, and includes hands-on projects and guest speakers. The class will graduate in April 2017.
- Morgan from Emc Network Visits. James Morgan, PhD, is the author of The Toyota Product Development System: Integrating People, Process And Technology. He gave a presentation on Lean product development and engaged in informal discussions on Lean which was well attended by faculty, staff, and students. Dr. Morgan received a Shingo Prize for his research in Lean product development.
- Intro to Business Students Learn Lean Basics. Jon Leinonen, lecturer, project advisor, and mentor in residence in the School of Business and Economics, asked the Office of Continuous Improvement to give a presentation on Lean
  - of Continuous Improvement to give a presentation on Lean
    Basics for the 106 students in his Introduction to Business courses. Leinonen believes knowledge of
    Lean and continuous improvement is essential in today's economy.
- Michigan Tech Presents at Lean Conferences. The director of continuous improvement, Ruth Archer, was selected to present Learning to See the Past, Present, and Next Frontier at the sixth annual Michigan Lean Consortium (MLC) Conference. She also partnered with colleagues from the University of Illinois on a Games and Activities for Teaching Lean workshop delivered at the Network for Change and Continuous Innovation (NCCI) Annual Conference.
- Two New Student Process Improvement Coordinators On Board. The Office of Continuous Improvement welcomed Stephen Butina and Rachel Chard as new student process improvement coordinators. They are both pursuing a BS in Management with a concentration in supply chain and operations.

### Formal Continuous Improvement Events as of October 31, 2016

Executive Team Area	Active as of 31 Oct 16	Completed since last report 1 Jul-31 Oct 16	Completed FY17 YTD	Completed FY16 Full Year
Academic Affairs	1	0	0	11
Administration	3	3	3	12
Financial Services and Operations	1	1	1	0
Research	0	0	0	0
Student Affairs and Advancement	1	0	0	4
Total	6	4	4	27

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James Morgan talking about Lean.