

# Indiana State University

2005 - 2006 Academic Annual Report

Department of Manufacturing & Construction Technology

Year in Review

## Accomplishments

**As you have heard, increasing public awareness of Indiana State University's accomplishments is crucial to building student enrollment, influencing policy makers, and developing a place of pre-eminence in the Midwest. What do you consider to be your department's accomplishments for the 2006-2007 year that will contribute to this effort? [Please list in priority order and limit to no more than 8.]**

1. We were able to successfully hire a dynamic, young tenure track faculty member for the construction management program. 2. Re-accreditation reports: a) Faculty completed and submitted their ACCE third year reaccreditation report for the construction management program. b) Faculty are currently working on the two year NAIT re-accreditation reports for the Manufacturing Technology and Computer Integrated Manufacturing Technology programs. 3. Experiential Learning is a key part of all MCT programs. This year we had 40 students do a cooperative work study/internship. 4. The construction mgt. faculty along with the Dean began the preliminary planning for a Center for Sustainable Construction and Entrepreneurship. 5. Distance Education: a) Four graduate faculty in the MCT department are teaching M.S. and Ph.D. distance courses and serving on numerous graduate committees, b) The Industrial Supervision (Degree Link) Program continues to serve a need for distance students. 6. Articulation (transfer) agreements were updated with Ivy Tech and new agreements are being formed with many other two-year schools. 7. Faculty developed a construction minor and completed all the curriculum paperwork. 8. MCT faculty held three active leadership positions in regional professional associations and two leadership positions in national/international professional associations.

## Research and Scholarship

**What is your assessment of accomplishments in the area of research and scholarship that is focused primarily on contributions to practice and discipline-based scholarship? Are you satisfied overall? In which areas do you feel your department does particularly well? In which areas do you feel your department needs to improve?**

During 2005-2006 MCT faculty published two articles, presented six papers at conferences and received two grants. They attended a total of 10 conferences, held leadership positions both on and off campus and got re-certified in OSHA, APICS and SME. I believe given the teaching loads, advising, and service responsibilities faculty are doing pretty well. I would like to see more faculty doing research and scholarship and I will continue to encourage this. I believe the department is doing pretty well in papers presented. In particular, I believe our graduate faculty need to increase their level of research and scholarship.

## Grants, Contracts & Off Campus Professional Service

**What is your assessment of accomplishments in the area of grants, contracts, and off campus professional service? Are you satisfied overall? In which areas do you feel your department does particularly well? In which areas do you feel your department needs to improve?**

Faculty in the MCT department submitted a few grants in 2005-2006. It would be nice to see more faculty involved in grant writing. Off campus professional service includes 4 offices held in

regional, national and international organizations and several committee memberships. I am pleased with the level of off campus service for most MCT faculty. I believe we are doing off campus service very well. We can improve in grant writing.

### Teaching

**We would like to highlight innovative approaches to teaching. Has your department developed any pedagogies or practices you'd like to share with us? Please describe briefly.**

Four faculty in the MCT department are involved in the Ph.D. in Technology Management program which is becoming an eminent program. We also have an undergraduate degree in Industrial Supervision that is a Degree Link program. I anticipate this program will satisfy a real need in Indiana and will grow into an eminent program. Both of these programs involve innovative approaches to teaching as they use distance education technology. The program in Computer Integrated Manufacturing has installed cameras in the CIM lab and is developing the iLearnTek system so students around the world will have access to the lab resources under adult supervision. This program has real potential to grow, especially given the push in Indiana for advanced manufacturing. Two of our courses (MCT 131 and MCT 133 are involved in the Learning Communities program.

### Course Scheduling/Enrollment Management

**What have been your greatest challenges in scheduling courses to meet student needs this year? How were you able to overcome them?**

The biggest challenge is not having enough faculty in order to keep class size to a reasonable level. Also having faculty with the proper expertise for certain classes. These things create challenges in scheduling courses. Low enrolled classes in some instances also creates challenges. I was able to overcome these challenges by hiring a one-year full time temporary faculty and hiring adjuncts with proper expertise to teach classes. Low enrolled classes were cancelled and alternative arrangements were made for students to learn the content. In some cases faculty agreed to work with the student in a TBA arrangement to help the student receive the content knowledge.

### Outreach

**What are the outreach opportunities for your discipline? (non-traditional modes of delivery and timing, etc)**

1. Faculty in the MCT department teach courses, advise students and serve on committees for the Ph.D. in Technology Management Program. This is a web-based distance education program. 2. We have an undergraduate Degree Link program in Industrial Supervision. This is a distance education program geared toward people with a degree (A.S. or A.A.S.) in a technical area that are working and want to further their education by completing a B.S. degree. This degree was strengthened this year with Ivy Tech and is being transformed into a Technology Management degree to better meet the needs of their students. We expect it to be very popular. 3. The MCT department also shares the MS in Industrial Technology program that is a web-based program. 4. MCT faculty and students are involved in other outreach activities such as the Vigo County Explorer Program, Parke-Vermillion County Explorer Program, and Habitat for Humanity. 5. I believe there are many opportunities for faculty to do consulting.

## **Strategic Initiatives**

### Development Activities

**What steps have you taken to support development activities in your department? How can**

## **your efforts be supported?**

We work closely with the College of Technology development officer in support of development activities. We attend functions such as the Emeriti Breakfast, the Terre Haute Air Show, Honor Day activities and other events in support of development. Not only do these events honor current students they also honor prominent alumni who are in a position to give back to the university. The MCT website promotes our advisory boards, alumni and now has a link for alumni to update their personal information. MCT faculty are always interested in developing relationships with alumni and friends of Indiana State University.

### Community Engagement I

#### **Please summarize your faculty's efforts in community engagement this year.**

1. Cooperative Education/Internship is required in the construction management and the industrial supervision programs. It is strongly encouraged in other programs in the department. About 40 students completed a co-op/internship this past year. Faculty work hard to help place students into these situations by organizing on-campus interviews, contacting employers, writing letters, etc. 2. Faculty and students participated in building the Habitat for Humanity home, which is a community service project, and other activities such as this. 3. Faculty participated in a Faculty Fellows grant called the Explorer Program that involved several ISU students, Middle and High School students and around 21 industry and education partners. 4. The department has two active advisory boards, one for the manufacturing related programs and one in construction management.

### Experiential Learning

#### **We are interested in hearing about any innovative approaches you might have taken to incorporate experiential learning into your course or departmental work this year.**

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### **Future Goals**

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**The University is highlighting experiential learning, community engagement, and eminent programs as aspects of our campus that will attract students and resources. How is your department planning to contribute to these strategic initiatives in ways that will help ISU be recognized as a Pre-eminent University?**

1. The MCT department requires a cooperative work-study in two of our programs, construction management and industrial supervision. It is strongly encouraged in the other programs. We will continue to develop partnerships with schools, businesses, industry, and other agencies through co-op programs, internships, and research and development projects to expand access to higher education and better prepare our future workforce. 2. MCT faculty currently involve undergraduate and graduate students in projects, research and presentations at national conventions. 3. We will be creating a capstone course that will include some creative projects/class assignments. 4. Student clubs get involved in service projects such as Rebuilding Together and Habitat for Humanity. 5.

MCT students compete in regional and national events such as the National Assoc. of Home Builders and AGC-I the Great Lakes Region III Conference. 6. The department will continue to stay involved in the Vigo County Explorer Program which involves 21 industry and education partners. 7. The department will continue to stay involved in the Parke-Vermillion Explorer Program. 8. Faculty in the department will continue to work with the Dean to develop a Center for Sustainable Construction and Entrepreneurship.

### Feedback

**This section is to allow you to share your ideas for enhancing enrollment or dealing with budget and other challenges facing the administration.**

1. ISU needs to establish a bigger presence in the Indianapolis area. It is my understanding a very small percent of our student population comes from Indy. 2. Make a better connection with two-year schools and community colleges for easy transfer. 3. Develop an atmosphere of a more friendly and helpful university in all divisions of the university that will allow us to retain more of the students we currently have and attract others. 4. Stop doing the things that aren't working and direct financial resources into areas that are growing. Some programs could grow if more resources were made available.