PROMOTION RECOMMENDATION
University of Michigan-Flint
College of Arts and Sciences
Department of Computer Science, Engineering and Physics

Quamrul H. Mazumder, assistant professor of mechanical engineering, Department of Computer Science, Engineering and Physics, College of Arts and Sciences, is recommended for promotion to associate professor of mechanical engineering, with tenure, Department of Computer Science, Engineering and Physics, College of Arts and Sciences.

Academic Degrees:

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<tr>
<th>Degree</th>
<th>Year</th>
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<tr>
<td>Ph.D.</td>
<td>2004</td>
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<td>M.B.A.</td>
<td>1998</td>
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<td>M.S.</td>
<td>1988</td>
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<td>B.S.</td>
<td>1982</td>
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<td>The University of Tulsa, Tulsa, Oklahoma</td>
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<td></td>
<td>Oklahoma State University, Stillwater, Oklahoma</td>
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<td></td>
<td>South Dakota State University, Brookings, South Dakota</td>
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<td>Bangladesh Agricultural University, Mymensing, Bangladesh</td>
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Professional Record:

2006 – Present
Assistant Professor of Mechanical Engineering, College of Arts and Sciences, University of Michigan-Flint

2005 – 2006
Assistant Professor of Mechanical Engineering Technology, Pittsburg State University, Pittsburg, Kansas

Summary of Evaluation:

Teaching – Professor Mazumder has taught over a dozen courses, developed curriculum in mechanical engineering, advised and recruited students tirelessly, and consistently honed his pedagogy to balance necessary rigor with the needs of our student population. Students and peers alike praise his efforts as a committed, gifted teacher.

Research – Professor Mazumder has developed dual lines of research in fluid dynamics and in engineering education. Peer evaluators praise his innovative work, which frequently involves students in undergraduate research. With ten refereed articles and one book published since 2005, Professor Mazumder’s record is a fine one that bodes well for future productivity.

Recent and Significant Publications:

Books Published:

Refereed Journal Papers Published or Accepted for Publication:
Mazumder, Quamrul H. “CFD Analysis and Validation of Single and Multiphase Flow Behavior in an Elbow,” Engineering Applications of Computational Fluid Mechanics, The Hong Kong Polytechnic University, Hong Kong, Paper Ref no. Ref No: M225201105, Accepted for Publication 2011.


*Refereed Conference Proceedings Published or Accepted for Publication:*


Mazumder, Quamrul, H. “Integration of Computational Fluid Dynamics Analysis in Undergraduate Research Program.” Paper number F-73, ASEE North Central Section Conference, Grand Rapids, MI. April 3-4, 2009.


Service – Professor Mazumder is among the more visible junior faculty working highly effectively in service activities to the University and to his profession and community. He has substantive committee work to his credit at the Department and College levels. He has been active in general education reform efforts and also on the College’s Curriculum Committee. Professional and community ties are extensive and create meaningful links between these groups and the University.

External Reviewers:

Reviewer (A):

“... some of his works published as first author in the Journal of Pressure Vessel and Technology, in particular the papers entitled ‘Experimental Investigation of The Location of Maximum Erosive Wear Damage in Elbows’ and ‘Prediction of Erosion Due to Solid Particle Impact in Single-Phase and Multiphase Flows’ are significant works.”
Reviewer (B):
"The quality of his scholarly [sic] work is outstanding as evidenced by his publication records. He was able to publish 10 journal papers and 18 conference papers in last five years. ... Overall my assessment of scholarly and service accomplishments of Dr. Mazumder is 'outstanding' and praiseworthy as an assistant professor in five years' timeframe. His potential for continued research and commitment is also very high."

Reviewer (C):
"Professor Mazumder has generated an impressive body of work. He has published one book, ten peer reviewed journal articles, eighteen refereed conference papers and nine student co-authored conference papers. Dr. Mazumder's research focuses on an important area, erosion damage in the pipe wall due to solid particle impact. ... He is certainly considered as a leader in this area."

Reviewer (D):
"Since 2007, Professor Mazumder has listed nine articles and 12 conference papers, .... Six articles are related to his primary research interest (CFD), two are general in nature (failure analysis and educational issues), and one article involves 'experimental' work."

Reviewer (E):
"Professor Mazumder [sic] research on pipe erosion is innovative and has important practical applications."

Reviewer (F):
"... my impressions about the scholarly impact of his work on erosion are excellent. A search on Google Advanced Scholar showed his publications on erosion have been cited a total of 45 times as of today. This is very good. One publication had 14 citations and others had 12, 8, and 7. This shows a strong interest in all of his work."

Summary of Recommendation:
Professor Mazumder shines in service and as a teacher and scholar. Based on the unanimous recommendation of his department and the CAS Executive Committee, I warmly and enthusiastically recommend the promotion of Quamrul H. Mazumder to the rank of associate professor of mechanical engineering, with tenure, Department of Computer Science, Engineering and Physics, College of Arts and Sciences.

Recommended by:

D. J. Trier, Dean
College of Arts and Sciences

Recommendation endorsed by:

Gerard Voland, Provost and
Vice Chancellor for Academic Affairs
May 2012

Ruth J. Person, Chancellor
University of Michigan-Flint