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## 11/25/1980 - Math Recognition

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# News

Eastern Illinois University  
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HARRY READ, Director of Information and Publications

November 26, 1980  
LAM

## FOR IMMEDIATE RELEASE

CHARLESTON, IL --International recognition is continuing to accrue to a professor of mathematics at Eastern Illinois University and to his research specialty of solving nonlinear systems in fluid dynamics.

Dr. Suhrit K. Dey's expertise in the field will take him to Paris, France, on Dec. 1-5 and to India on Dec. 17-20.

He has also contributed to organizations whose acronyms are household bywords. Those are NATO (North Atlantic Treaty Organization), and NASA (National Aeronautics Space Administration).

Major application of Dey's fluid dynamics research for NATO and NASA include high speed aerodynamics, various problems related to environment, and blood circulatory problems related to heart disease.

He received a fellowship from Stanford University to conduct a study regarding applications of his numerical method in transonic flow problems at NASA-Ames Research Center at Moffett Field, Calif.

At the same time, NASA-Langley Research Center, Hampton, Va., reviewed Dey's work on smoothing nonlinear errors by incorporating mappings of decadence in computer codes and accepted it for publication in its "Proceedings on Grid Generation Workshop." Dey made his paper presentation at the Langley conference attended by 200 participants from around the world.

Also, mathematics studies of these mappings were reviewed for presentation at the International Symposium on Continuum Mechanics to be held at the Indian Institute of Technology, Kharagpur, India. Dey will

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add 1  
Dey

personally present his article "Applications of D-Mappings to Numerical Fluid Flow."

Dey says a fundamental question regarding the knowledge of applicability of a method prior to actual computation is generally unanswered for most numerical methods for nonlinear system. He found an answer and this work was reviewed in France and accepted for publication in "Proceedings of the International Congress on Numerical Methods for Engineers." Dey will make his presentation in person in Paris.

In addition to lecturing at NATO conferences, Dey has presented applications of his method in various kinds of mathematical systems at universities throughout the U.S.

Dey is a soft-spoken native of Calcutta who has been on Eastern's faculty since 1970.

Dr. Jean J. Ginous, Director of the Von Karman Institute for Fluid Dynamics in Brussels, said this:

"Professor Dey is a specialist of high reputation in the field of numerical methods for the solution of fluid dynamics problems."