2023 NMMATYC Presentation Form

Please fill out the following to consider your presentation for our upcoming conference.

* Required

First Name *

Helmut

Last Name *

Knaust

Email address *

hknaust@utep.edu

Phone Number *

(915) 747-7002 (W), (915) 494-2222 (C)

Institutional Affiliation *

UTEP

Co-Presenters and their Institutional Affiliations

N/A

Presenter and Co-Presenters Resume *

Give a brief (~100-200 words!) resume for the presider to announce before your talk

Helmut Knaust is Associate Professor in the Department of Mathematical Sciences at the University of Texas at El Paso. After obtaining his master's degree in Germany, he completed his Ph.D. degree at the University of Texas at Austin. Dr. Knaust joined UTEP in 1991. He is a Banach space geometer by training. His pedagogical interests include inquiry-based learning, peer-led team learning, and the use of the internet as a learning tool. In 2015 Dr. Knaust was the recipient of a Regents' Outstanding Teaching Award from the UT System. Jointly with two colleagues, he is co-owner of the mathematics help site S.O.S. Math on the world-wide web. Dr. Knaust currently serves as co-principal investigator of NSF's Louis Stokes Alliance for Minority Participation program in the UT System, and its Bridge to the Doctorate program at UTEP.

Preferred Time of Presentation *

Check multiple boxes for those which you have no preference

- [ ] Friday Morning
- [ ] Friday Afternoon
- [x] Saturday Morning

Preferred Length of Presentation *

Please plan for a 5 minute question/discussion period for your presentation

- (●) 20 minutes
- ( ) 50 minutes

Technological Requirements

Please indicate any technology you will utilize in your presentation

- [x] Computer/projector
- [ ] VHS/DVD player
- [ ] Document camera
- [ ] Overhead projector
- [ ] Wifi access
- [ ] Other:

Presentation Title *

Inquiry-based Learning

Presentation Abstract (please limit to about 150 words) *

I teach several inquiry based learning courses. An example: "Introduction to Higher Matheatics" is a freshman/sophomore level course, modeling Mathematics research as a laboratory science. The course is based on materials developed at Mount Holyoke College and requires only co-enrollment in Calculus I. Small student teams explore several rich mathematical topics on their own. They perform mathematical experiments (with the help of a computer algebra system), formulate, test and refine conjectures, and eventually try to prove some of their conjectures. At the end of each two week laboratory, the student teams write up their findings in a laboratory report.

Notes or Comments

If you have comments to the Conference Organizing Committee, add them here.

N/A

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