

# ***“Discovering the Art of Teaching and Learning Mathematics Using Inquiry”***

October 2 & 3, 2015

Chieftain Motel,

Carrington, ND

Sponsored by NDMATYC

This year we will offer a special AMATYC Traveling Workshop presented by Christine von Renesse and Volker Ecke.

## ***Tentative Schedule***

### ***Friday, October 2***

**3:30 – 4:30 PM** R & R (Registration and Refueling)

#### **4:30 – 6:30 PM Workshop: Experiencing Inquiry**

In this workshop the participants will experience what inquiry feels like *as students*. Using an activity from our mathematics for liberal arts curriculum, we will model an inquiry-based classroom. Afterwards we will analyze what we, the facilitators, did to create a safe place where effective and fun inquiry could take place. Which tools did you see us use? Why did we use them?

**7:00 – 8:00 PM** Dinner together at the Chieftain (cost partially underwritten by NDMATYC)

**8:15 – 9:15 PM** Business Meeting

### ***Saturday, October 3***

#### **8:00 – 9:00 AM Workshop: Tools for the Inquiry Classroom**

In this Workshop we will analyze videos of inquiry-based classrooms to see and identify common tools, for example we will see specific talk moves in action and discuss how to encourage productive student mistakes.

**9:00 – 9:30 AM** Break

#### **9:30 – 11:15 AM Workshop: Creating IBL Lessons**

In this workshop participants will learn how to take an already developed lesson plan and create an inquiry lesson from it that fits their audience best. Participants who already have some experience using inquiry can bring their own lesson plan that they would like to improve. (Bringing your own laptop and course materials could be helpful 😊)

**11:15 – 11:30 AM** Break

#### **11:30 – noon: Presentation and Discussion: Assessment Ideas**

First, we will present different resources for creating inquiry lessons, among others our own project “Discovering the Art of Mathematics”, see [www.artofmathematics.org](http://www.artofmathematics.org). After a short presentation of our own assessment ideas that could accompany an inquiry classroom, we invite participants to discuss their own needs and ideas.

**12:00 – 12:15 PM** Final Wrap Up

**Lunch Discussion:**

Interested participants can join Christine and Volker for lunch to discuss more how to design inquiry activities and create an open inquiry classroom.

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*Studies show that active involvement of mathematics students in the learning process is a key ingredient in supporting their learning. You will learn about tools for creating an inquiry-based learning classroom that engages students in making sense of mathematical ideas.*

*This workshop will help you:*

- *Experience what mathematical inquiry can feel like in a mathematics classroom,*
- *Engage in creating your inquiry activities,*
- *Understand and practice ways for creating a classroom environment where productive, safe, and deep mathematical inquiry can take place, including assessment, and*
- *Reflect on the interaction of teacher, student, investigations, mathematics, and inquiry materials in the classroom.*

*To learn more about the presenters and their inquiry-based learning classroom tools, please visit <https://www.artofmathematics.org/classroom>*

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**Registration** for the conference is \$100, which includes Friday evening’s dinner. As is the tradition,  $\pi$  will be included if we have a minimum of 25 registrants.

**Dues:** You may include your membership dues of \$10 with the registration or pay separately at the conference.

**Student Registration:** Registration for students is \$20 for both days which includes Friday evening’s dinner. A Saturday only registration is also available for \$5. We encourage mathematics education majors to attend and learn about current trends in their chosen fields. If there are students at your school who would benefit from attending this conference, please pass this information on to the appropriate people.

**REGISTRATION FORM**

Registration includes the conference and Friday night’s dinner. Send this form and a check made payable to NDMATYC or e-mail your registration and pay when you arrive.

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NAME \_\_\_\_\_ SCHOOL \_\_\_\_\_

REGISTRATION \$100 \_\_\_\_\_ DUES \$10 \_\_\_\_\_ STUDENT \$20 \_\_\_\_\_ TOTAL ENCLOSED \$ \_\_\_\_\_

Registration deadline is September 28. You are responsible for your own meals (with the exception of Friday evening) and lodging arrangements. The **Chieftain** is holding a block of rooms for us until **September 12**. Tell them you are with NDMATYC when you reserve your room. Chieftain: Phone 701-652-3131; Fax 701-652-2151. Super 8 (across the street from the Chieftain): 701-652-3982