The Milwaukee Mathematics Partnership

The Role of the Teacher-in-Residence

The Milwaukee Partnership Academy
Friday, January 21, 2005
Presentation goals

- What is a Teacher-in-Residence?
  - Roles and Responsibilities
  - Benefits to MPS, UWM and MATC as well as other Institutions of Higher Education

- How does the Teacher-in-Residence model benefit the work of the Milwaukee Public Schools and the Milwaukee Partnership Academy?
# Meet the MMP Teachers-in-Residence

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sharonda Harris</td>
<td>Elementary Teacher-in-Residence</td>
<td><a href="mailto:sharris@uwm.edu">sharris@uwm.edu</a></td>
</tr>
<tr>
<td>Melissa Hedges</td>
<td>Elementary Teacher-in-Residence</td>
<td><a href="mailto:mhedges@uwm.edu">mhedges@uwm.edu</a></td>
</tr>
<tr>
<td>Bernard Rahming</td>
<td>Middle School Teacher-in-Residence</td>
<td><a href="mailto:brahming@uwm.edu">brahming@uwm.edu</a></td>
</tr>
<tr>
<td>Dan Lotesto</td>
<td>High School Teacher-in-Residence</td>
<td><a href="mailto:lotesto@uwm.edu">lotesto@uwm.edu</a></td>
</tr>
</tbody>
</table>
Teaching as a profession
Milwaukee Mathematics Partnership Goals

- Comprehensive Mathematics Framework
- Distributed Leadership
- Teacher Learning Continuum
- Student Learning Continuum
Comprehensive Mathematics Framework

**UNDERSTANDING**
Comprehending concepts, operations, symbols, and procedures

**PROBLEM-SOLVING/APPLYING**
Devising strategies for solving problems

**ENGAGING**
Seeing mathematics as useful and doable

**COMPUTING**
Carrying out procedures accurately, efficiently, and appropriately

**REASONING**
Using logic to explain and justify solutions to problems

**Learner**
Communicates Mathematically

**Mathematics Proficiency For All Students**

---

**References**
The Role of the MMP Teacher-in-Residence

- Link mathematics teacher preparation and urban classroom practice
- Engage preservice and inservice teachers in developing the knowledge needed for teaching mathematics
- Participate as researchers studying mathematical preparation and induction of teachers
- Bring leadership capacity to the district now as well as after the completion of our two-year residency
Milwaukee Mathematics Partnership:
Goal: To improve the teaching and learning of mathematics for all students PK-16
Contributions to UWM Teacher Preparation Program

Design Teams

Purpose
Develop, teach, and revise mathematics content and methods courses to prepare prospective teachers with a deep understanding of mathematical content needed for teaching

Design Team Members
- Mathematician
- Mathematics educator
- Teacher-in-Residence

✓ Problem Solving – Sharonda Harris
✓ Discrete Probability and Statistics & MATH 176 – Bernard Rahming
✓ Geometry – Melissa Hedges
✓ Secondary Capstone Course – Dan Lotesto
Contributions to UWM Teacher Preparation

• Instrumental in designing and implementing assessment measures that evaluate the impact of the work of the MMP

• Keep the “district teacher perspective” in the forefront during MMP sponsored collaborations
  ✓ Mathematics Education Seminar
  ✓ Mathematics Education Committee Meetings
  ✓ Early Math Placement Test
  ✓ Design Teams

• Contributions to professional learning for university faculty
  ✓ PRAXIS Exam Discussion
  ✓ IHE Math Network
Contributions to Milwaukee Area Technical College

- Strengthening the link between the CUTEP program (Cooperative Urban Teacher Education Program) at MATC and UWM Teacher Education Program

- Support connections between parallel courses at UWM and MATC
  - Collaborate with MATC Math Faculty in designing and implementing assessments that measure the growth of teacher knowledge needed for teaching
Contributions to other Institutions of Higher Education

- Facilitated sessions on the knowledge needed for teaching mathematics
  - MEET IV conference (March 2004)

- Transition to College Mathematics
Plan and facilitate sessions in mathematics content and sound instructional practices for monthly Math Teacher Leader training.

Plan and facilitate sessions at the Literacy and Mathematics Showcase Spring, 2004.

Facilitate professional development sessions and courses for MPS teachers district-wide and school-based.

Monthly MTS/TIR training sessions.

District Leadership

Collaborations with Mathematics Teaching Specialists

✓ Elementary Mathematics Assessment Pilot
✓ Middle School Mathematics Assessment Pilot
✓ Best Practices in Mathematics Video Project
District Leadership

✓ Members of MPA workgroups

✓ Presented at the Wisconsin New Promise Conference: Closing the Achievement Gap, January 2005 –

Session Title: High Quality Mathematics Instruction for All: Milwaukee Public Schools Mathematics Framework.
In reflecting on the Teacher-in-Residence program, in what ways might the TIRs provide teacher leadership upon completion of their residency?
Milwaukee Mathematics Partnership
For more information

- Web site: www.mmp.uwm.edu
- UWM
  Dr. DeAnn Huinker, 414-229-6646, huinker@uwm.edu
  Dr. Kevin McLeod, 414-229-5269, kevinm@uwm.edu
- MPS
  Mr. Henry Kranendonk, 414-475-8739
  kranenhx@milwaukee.k12.wi.us
- MATC
  Dr. Kimberly Farley, 414-297-8187, farleykd@matc.edu