**REGISTRATION DEADLINE:June 16 OR July 28**

(You will be notified < June 18 **OR** July 30 whether this workshop has enough participants.)

To register for “**End-of-Course Exam**”, please complete this form and mail it with the fees to Bluffton University, Office of Adult & Graduate Studies (address below) or call 1-800-488-3257 option 4 or FAX 419-358-3399.

**To register on-line—see bottom of this page.**

**PLEASE CHECK: Register for JUNE 24-26** **OR**  **for AUG 5-7 .**

Name

 Preferred first name for nametag:

Address (H)

City ST Zip

Telephone (H)

School School e-mail

Yrs teaching experience Home e-mail

Classes/Grade Level

Currently Teaching:

 Check here if you do NOT want your home # or address given to other participants on the roster sheet sent prior to the workshop.

**Payment – Please make checks payable to Bluffton University**

 **(Sorry, we are not accepting payment by credit card.)**

**Cost:** **Regular Registrants**

 **Tuition and all materials ($125 or $150) $**

 **OR Graduate Credit Registrants**

 **1 Hour Graduate Workshop Credit ($275 or $300) $**

 **Plus (if applicable)**

 **Lodging and Food for non-commuters ($76 or $100) $**

**Total Enclosed $**

**NOTE: You need to pay the extra $25 for OCTM Membership only ONCE per summer.**

**NOTE: You may register for full-length workshop only!**

Bluffton University For more information on Seminar content,

Office of Adult and Graduate Studies contact Duane Bollenbacher at

1 University Dr. Box 20 (H) 419/358-7365 (W) 419/358-3296

Bluffton, OH 45817 **bollenbacherd@bluffton.edu**

**mastc@bluffton.edu** **(Carrie Mast) 419-358-3065**

**You may register On-Line at**

[**http://www.bluffton.edu/grad/gpe/workshops/**](http://www.bluffton.edu/grad/gpe/workshops/)

**OR go to Bluffton.edu and follow the links through Academic Life, Degree Programs, and then Graduate Programs (click box just left of center). Following on-line registration, you (or your school) can send in the payment.**

**ATTN: All Teachers of Mathematics**

**Duane Bollenbacher’s 26th Annual Summer Mathematics Workshops**

**At Bluffton University, Bluffton, Ohio*.***

**\*\*Air Conditioned Classroom and Residence Hall\*\***

**“Proven and Effective Methods for**

**Passing the End-of-Course Exam”**

**Tuesday, Wednesday, Thursday – June 24-26, 2014 8:30 am - 4:30 pm**

**OR**

**Tuesday, Wednesday, Thursday – Aug 5-7, 2014 8:30 am - 4:30 pm**

**Instructor: Duane Bollenbacher, Bluffton University**

**\*\* Note: This is a NEW offering for 2014.**



 **The following credit is available:**

 **1 semester hour graduate workshop credit or 22.5 contact hours for LPDC Credit**

**List of 2014 Summer Mathematics Workshops At Bluffton University**

**Tues - Thurs, June 10-12:**

 ***“HQT Certification for Intervention Specialist in Mathematics Content”***

 **(A Repeat Of Summers 2008—2013) INSTRUCTOR: Duane Bollenbacher, Bluffton Univ.**

 **(If you are an Intervention Specialist, this class, plus one other, will certify you in HQT Math Content)**

**Tues-Thurs, June 17-19:**

 **“K- 2 Activities & Problem-Solving to LEARN and to TEACH GOOD Mathematics”**

 **(This Is A New Offering For 2014) Instructor: Dr. Lesley (McCue) Evans, University of Dayton**

 ***“Best Practices for Rational Numbers: Fractions and Decimals Grades 3 – 5”***

 **(This Is A New Offering For 2014) Instructor: Marilyn Link, Retired, Coldwater, OH**

 ***“Keeping Current in An Ever-changing World of a Middle School Mathematics Teacher”***

 **(This Is A New Offering For 2014) Instructor: Becky Link, MS Teacher, Ft. Recovery, OH**

 ***“Using Problem-Solving Techniques to LEARN and to TEACH Good HS MATHEMATICS*”**

 **(This Is A New Offering For 2014) Instructor: Chris Bolognese, Upper Arlington Schools, OH**

**Tues-Thurs, June 24-26:**

 ***“Proven and Effective Methods for Passing the End-of-Course Exam”***

 **(This Is A New Offering For 2014) Instructor: Duane Bollenbacher, Bluffton University**

**Tues-Thurs, Aug 5-7:**

 ***“Proven and Effective Methods for Passing the End-of-Course Exam”***

 **(This Is A New Offering For 2014; REPEAT from June 24-26, 2014) Duane Bollenbacher**

**Completion of ANY TWO of these workshops may be used by an INTERVENTION SPECIALIST to become a HIGHLY QUALIFIED TEACHER (HQT) in mathematics CONTENT.**

***“Proven and Effective Methods for***

***Passing the End-of-Course Exam”***

**Duane Bollenbacher**

**\*\* Note: This is a NEW offering for 2014.**

**\*\*When registering, be sure to indicate which WEEK you prefer**

**Description**

 **This 3-day course consists of tried-and-true philosophies, classroom procedures, incremental approaches to teaching a new topic, questioning techniques, assignments, REVIEW and RETAIN materials, preparing for each quiz and each test, and helping students gain confidence and security in taking a test and the final exams.**

 **This course, along with one other course, may be used by an INTERVENTION SPECIALIST to become a HIGHLY QUALIFIED TEACHER (HQT) in mathematics CONTENT.**

**Content** (Some possibilities)

 See description above

 Algebra

 Properties, Sets, and Subsets of REAL NUMBERS

 Relations, Functions, Domain, Range; Special Quadratics

 Factoring; Completing the Square; Quadratic Formula

 Many approaches to GRAPHING (FUNCTIONS and others)

 Special Connection and Interaction of GRAPH, FUNCTION, TABLE

 Logarithms; Complex Numbers; Conic Sections; Trigonometry

 Prove that  is irrational; MUCH, MUCH MORE

 Geometry

 Importance of TERMINOLOGY, DEFINITIONS, POSTULATES, and THEOREMS in PROOFS

 Polygons, Similarity, Special Right Triangles, Pythagorean Theorem

 Circles; Solid Figures

 Perimeter, Area, Volume

 MUCH, MUCH MORE

**Prerequisites**

**Email Duane at** **bollenbacherd@bluffton.edu** **with any special requests or questions about the workshop or workshop content**

**Course Expectations**

Bring a TI-83 or -84, or tell me in advance that you need one available

 Attendance at all sessions

 Participation in all activities

 Sharing teaching ideas that have worked for you

**Sponsored By**

 Bluffton University Mathematics Department

Bluffton University Office of Adult & Graduate Studies

Bluffton University Master of Arts Education Program

Ohio Council of Teachers of Mathematics

**OCTM Non-**

**Cost** **Member Member**

 Regular Registrants

 Tuition and all materials

 (Includes 3 lunches and materials) $125 $150\*

 Graduate Credit Registrants

 1 Hour of Graduate Workshop Credit

 (Includes 3 lunches and materials) $275 $300\*

 Lodging and food for non-commuters

 2 nights, 2 breakfasts $ 76 $ 76

 3 nights (Inc. prior evening), 3 breakfasts $100 $100

\*The extra $25 will buy you one year of OCTM Membership, needed only ONCE per summer if participating in multiple workshops.

**About Duane Bollenbacher**

 2002 OCTM “Christofferson-Fawcett Award Winner”

 1991 OCTM "Mathematics Teacher of the Year"

 High School Mathematics Teacher - 30 years

 University Mathematics and Education Instructor - past 20 years

 Supervisor of Student Teachers – 19years

 Former OCTM State Contest Director (for 10 years)

 Writer of problems for many local and state contests

 Past President of OCTM; Historian of OCTM

 Mathematics Editor and Writer for 3 national children’s magazines

 Frequent presenter at workshops and in-services

 Wishes to share ideas with fellow classroom teachers

**Problems to Ponder for the Workshop (Always, Sometimes, Never)**

 **A line in the front wall of the classroom is A-S-N parallel to a line in the ceiling of the classroom.**

 **A line in the front wall of the classroom is A-S-N perpendicular to a line in the ceiling of the classroom.**

 **A line in the front wall of the classroom is A-S-N perpendicular to a line in the back wall of the classroom.**

 **A line in the front wall of the classroom is A-S-N skew to a line in the ceiling of the classroom.**

 **Suppose the symbol *p(n)* means the sum of all the prime numbers that are factors of *n*; e.g., *p(18)* = 2 + 3 = 5; *p(7)* = 7**

**Find: *p(8); p(9); p(10); p(24); p(28); p(70); p(154); p(1001)***

 **FACTOR COMPLETELY: *x5 – y5* ; *x5 + y5* ; *x6 – y6*; *x6+ y6***

***Bluffton is located 60 miles south of Toledo on I-75.***

**(Please feel free to make copies of registration for colleagues.)**