

Indiana State Mathematics Contest – April 22, 2006

Dear Mathematics Teachers and Coordinators:

The Indiana Council of Teachers of Mathematics is pleased to inform you that the 2005 Indiana State Mathematics Contest will be held on **Saturday, April 22, 2006**.

This annual contest is sponsored by the Indiana Council of Teachers of Mathematics (ICTM) and governed by policies approved by ICTM. For more information or to be added to the mailing list, please contact a local site coordinator. We hope that you will encourage your students to participate in the 2006 contest.

Time and Place

The Contest will begin at **9:30 a.m. local time on Saturday, April 22, 2006** at the **14** sites listed below. Students should be in their seats at 9:20 am local time to fill out forms.

Contest Sites By City

Bloomington	Gary	Muncie	South Bend
Evansville	Indianapolis (Two)	New Albany	Terre Haute
Fort Wayne	Kokomo	Richmond	West Lafayette
			Westville

Contest Sites and Local Site Coordinators

William (Jon) Ekman / Patricia Parkison Department of Mathematical Sciences Ball State University Muncie, IN 47306 (765)285-8683 (765)285-8675 wekman@bsu.edu pparkis2@bsu.edu	Robin Symonds Department of Natural, Information and Mathematical Sciences Indiana University Kokomo Kokomo, IN 46904 -9003 (765)455-9207 rsymonds@iuk.edu	Zhilan Feng Department of Mathematics Purdue University West Lafayette, IN 47907 (765) 494-1915 zfeng@math.purdue.edu
Duane Leatherman Dept of Mathematics and Actuarial Science	William Odefey Department of Mathematics and Actuarial Science	Jerry DeGroot Mathematics & Physics Section Purdue University North

<p>Butler University 4600 Sunset Ave. Indianapolis, IN 46208 (317) 940-9439 (317) 940-9521 dleather@butler.edu</p>	<p>Indiana University Northwest 3400 Broadway Gary, IN 46408 (219) 981-4237 wodefey@iun.edu</p>	<p>Central Westville, IN 46391 219) 785-5652 jdegroot@pnc.edu</p>
<p>Walter Dennis Scott Division of Natural Sciences & Mathematics Whitewater Room 200 Indiana University East 2325 Chester Boulevard Richmond, IN 47374 (765) 973-8285 wascott@indiana.edu</p>	<p>Kimberly Bonacci Natural Sciences Indiana University Southeast 4201 Grant Line Road New Albany, IN 47150 (812) 941-2132 kbonacci@ius.edu</p>	<p>Donald E. Miller Department of Mathematics Saint Mary's College Notre Dame, IN 46556 (574) 284-4492 dmiller@saintmarys.edu</p>
<p>Greg Peters Mathematics Department, Indiana University-Bloomington Bloomington, IN 47405 (812) 855-6848 petersg@indiana.edu</p>	<p>Joyce Vetter Dept. of Math Sciences Indiana University-Purdue University-Fort Wayne 2101 Coliseum Blvd. Fort Wayne, IN 46805 (219) 481-5428 vetter@IPFW.edu</p>	<p>Linda Tribble Mathematics Department University of Southern Indiana 8600 University Blvd. Evansville, IN 47712 (812) 465-1689 ltribble@usi.edu</p>
<p>Cheng Zhao/Yuejian Peng Mathematics and Computer Science Indiana State University Terre Haute, IN 47809 (812) 237-2128 macheng@isugw.indstate.edu mapeng@isugw.indstate.edu</p>	<p>Jeffrey X. Watt Dept of Mathematical Sciences Indiana University-Purdue-University Indianapolis 402 N Blackford St. Indianapolis, IN 46202 (317) 274-4070 jwatt@math.iupui.edu</p>	<p>2005 State Contest Chair Vesna Kilibarda Indiana University Northwest Department of Mathematics and Actuarial Science 3400 Broadway Gary, IN 46408 (219) 980-6591 vkilibar@iun.edu</p>

Categories, Format and Content

There are **five mathematics problem-solving tests**. Each contains 32 to 40 multiple-choice questions; 90 minutes are allowed for students to work with the test. The categories are: Pre-Algebra, Algebra First Course/Integrated Math I, Geometry/Integrated Math II, Algebra Second Course/Integrated Math III, and Comprehensive. Questions for the first four categories may be related to the content identified in the Indiana Academic Standards for Mathematics in the obvious ways, or included in State-adopted textbooks. The content of the Comprehensive contest is drawn from pre-calculus mathematics including trigonometry, finite mathematics, simple linear algebra, probability, statistics, and analytic geometry.

Participants

The contest is open to any middle school, junior high school or senior high school student in the state of Indiana. Participation on the part of any interested student is encouraged; there is no limit to the number of participants from any school. A participant -- defined as "a student who has finished/ will finish the given subject during the present school year"-- may take only one test each year.

- Participants in **Pre-Algebra** are limited to Middle School and Junior High School students who have not yet enrolled in Algebra or an integrated high school mathematics course; students can take it as many times as they like.
- Students who are enrolled in either an Algebra First Course or Integrated Mathematics First Course will register for the **Algebra I/Integrated Math I** test.
- Students enrolled in Geometry or Integrated Mathematics II will register for the **Geometry/Integrated Math II** test.
- Students enrolled in either Algebra Second Course or Integrated Mathematics III will register for the **Algebra II/Integrated Math III** test.
- The **Comprehensive** test is taken by students above the Algebra II level. A student can take the Comprehensive test more than once, in a different year.

Students can participate only one time in each of the Algebra I First Course/Integrated Math I, Geometry/Integrated Math II, or Algebra II/Integrated Math III categories.

Students can participate in the Pre-Algebra and Comprehensive categories more than once.

Registration, Certification and Fees

There is a non-refundable \$4.00 participant fee for each student. Participants must be registered by their school, and the school must certify that the participants are currently enrolled in courses appropriate for the category. No special certification is required for the Comprehensive category.

Please **print and send registration forms** (located at <http://www.indianamath.org/> etc) and **fees to your local site**. The fees and completed forms should be received by the local site coordinator by **March 24, 2006. CHECKS SHOULD BE MADE PAYABLE TO ICTM.**

Calculators, Cell Phones and Pagers

Cell Phones and Pagers must be turned off during the test. All tests are written with the assumption that each student has a scientific calculator available for use. Participants must provide their own calculators. A calculator may be used, but the TI-89 or above will **not** be

acceptable, **nor** will any HP equivalents (HP 48G or HP 49G or any variations of those with those initial codes). However, a common scientific calculator with memory and pre-calculus functions should be sufficient.

Sponsors and Transportation

A sponsor designated by their school must accompany participants. Transportation to and from the contest is the responsibility of the school and participant. Any sponsor who could help monitor testing on the day of the contest would be appreciated.

Special Needs

Participants that require any special needs must contact the local site coordinator at least one week in advance.

Recognition and Awards

Each participant will receive a Certificate of Participation. Each student answering 75% or more of the test questions correctly will be designated a Scholar and will receive a certificate. The top three students in each category at each site will also be honored.

Each student who scores among the top 5% throughout the state will be designated an Outstanding Scholar and will receive both a medal and a certificate. The top two students in each subject area on the state level will also be recognized. A recognition ceremony for Outstanding Scholars and their teachers will be held on Saturday, June 10, 2006, at the Indiana State House in Indianapolis (*North Atrium*). Outstanding Scholars will be notified in May of the time and location of the ceremony. Certificates and medals for student who cannot attend the ceremony will be sent to their homes. A list of all Outstanding Scholars will be published by ICTM in the Fall of 2006.

For More Information

The ICTM web site is located at <http://www.indianamath.org/> Previous tests, and last year's top 5% of students who took the test can be seen at this site.

Approved by the Division of School Activities, Indiana Association of School Principals