

## AWESEMATH'S Goals

Provide a fun, intellectually stimulating environment for students to learn math.

Inspire a love of mathematics and learning that lasts into college and beyond.

Help students significantly improve their performance in mathematics competitions.

Make mathematics itself and the entire camp experience highly enjoyable.

## WHY AwesomeMath Summer Program?

AwesomeMath is designed for bright students with a special interest in mathematics competitions.

Both camps offer mathematically gifted students the opportunity to engage in **meaningful problem solving** activities and explore in detail areas in **advanced mathematics**. The **high quality instruction** is provided by **renowned lecturers** and **Olympiad coaches** from around the world.

AwesomeMath's philosophy is that students learn better by diving into problems than just sitting through lectures. For this reason **our teaching sessions encourage student involvement** and are centered on using what is learned to solve concrete problems.



## AMSP Leadership

**DR. TITU ANDREESCU**, University of Texas at Dallas, AMSP Director  
US IMO Team Leader (1995 – 2002)  
Director, MAA American Mathematics Competitions (1998 – 2003)  
Director, Mathematical Olympiad Summer Program (1995 – 2002)  
Coach of the US IMO Team (1993 – 2006)  
Member of the IMO Advisory Board (2002 – 2006)  
Chair of the USAMO Committee (1996 – 2004)  
MAA Sliffe Award winner for Distinguished Teaching

**DR. JOSHUA NICHOLS-BARRER**, AMSP Academic Director  
MOSP instructor (2005, 2006)  
IMO Silver Medalist (1995, 1997)  
USAMO First Place (1997)  
USAMO Winner (1995 – 1997)

## AMSP Faculty

**DR. DORIN ANDRICA**, Babes-Bolyai University, Cluj-Napoca, Romania  
Chairman, Department of Geometry (1995 – present)  
Member of the Council for the Romanian Mathematical Olympiad

**DR. MIRCEA BECHEANU**, University of Bucharest, Romania  
Coach of the IMO Romanian team (1996-2002)  
Leader of the IMO Romanian team (1988, 1995-2002)  
Member of the IMO Advisory Board (1998-2002)  
Member of the IMO Problem Selection Committee (2003, 2004, 2005)

## ACADEMIC Program

The structure of the academic program will be the same for both locations. The lectures will focus on the following subjects: Foundations of Number Theory, Euclidean Geometry, Algebraic Inequalities and Techniques, Modular Arithmetic, and Computational Geometry.

Every course will be taught by instructors and the mentors will follow each teaching session by a 90-minute problem seminar that focuses on the materials presented in the lecture.

*"My son Tolga has returned home safely after three weeks at AwesomeMath Summer Program 2008. I personally would like to thank you and all other AMSP staff for a very well organized and planned program which challenged and improved Tolga's personal skills and knowledge not only in Maths but in social relationships as well."*

Murat Özdogan, Istanbul, Turkey

## GENERAL Information

The program is designed for students going into 7th-12th grades. Younger students may apply, but significant evidence of mathematical and personal maturity must be evident for admission.

We encourage female students to apply for our program. The China Girls Math Olympiad team trained at the AwesomeMath Summer Program 2007. We strive to create a culture of learning that treats everyone as a full member so that nobody feels out of place.

## A TYPICAL Day

Tuesdays through Saturdays will follow a schedule close to the one below. Academic team contests will be held on Sunday evenings.

*"Thank you for all you have done for the AMSP 2008. This was first time for Steve, but he enjoyed this program MUCH! Steve said that it was very educational, resourceful, and very fun. He met lots of friends and was very impressed with many amazing kids from all over the places. Steve wishes he can return to the program next year. I also thank to all staff who ran this program smoothly and made it so great."*

Eunjoo Park (mother of Steve Han), Gainesville, FL

8:00 am - 9:00 am	Morning routine and breakfast.
9:00 am - 10:30 am	Teaching sessions.
10:45 am - 12:15 pm	Problem sessions.
12:15 pm - 2:00 pm	Lunch break.
2:00 pm - 3:30 pm	Teaching sessions.
3:45 pm - 5:15 pm	Problem sessions.
5:30 pm - 7:00 pm	Dinner.
7:00 pm - 8:30 pm	Mathematics forum (optional)
7:00 pm - 10:00 pm	Recreational activities (optional)

*"Thank you for making my stay at AMSP very pleasurable and enjoyable. I will always remember this camp as an eye opener to pursuing my mathematical talent. I am already missing the daily camp life. This camp exercised my mind thoroughly making it easier for me to solve problems. This was the first time I was exposed to this kind of math. I have realized that I have a lot of work to do in improving my problem solving skills. This was one of the most inspiring moments of my life."*

Aneesh Sampath, Setauket, NY

## DR. ZORAN SUNIC, Texas A&M University

Deputy Leader of the Macedonian IMO team  
Coach of the US IMO Team (2002)  
Member of the USAMO Committee (2005 – present)

## DR. RAZVAN GELCA, Texas Tech University

IMO Gold Medalist (1985)  
MOSP Instructor (1997, 1998, 2000, 2002, and 2006 – present)  
US IMO Deputy Leader (2008)

## JUNIOR Faculty

**BRIAN BASHAM**, Massachusetts Institute of Technology  
MOSP qualifier 2007  
1st Place HMMT Combinatorics Subject Test 2008  
AMC 10 Perfect Score 2005

**IVAN BORSENCO**, Massachusetts Institute of Technology  
IMO Gold Medalist (2006), Bronze Medalist (2003 – 2005)  
Assistant Editor, Mathematical Reflections (2005 – present)

## IVAN MATIC, University of California, Berkeley

IMO Silver Medalist (1999)  
Assistant Director, Berkeley Math Circle

**JUAN IGNACIO RESTREPO**, Universidad de los Andes, Bogota, Colombia  
IMO Silver Medalist (2004), Bronze Medalist (2003)  
International Mathematics Competition Second prize winner (2005, 2006)

## LIFE at the Camp

### Dallas Location

The camp is held on the beautiful, safe campus of the University of Texas at Dallas. Students will live in the University Village, the school's apartment-style student housing. In each spacious, fully-furnished apartment (with washer/dryer), a group of several students of the same sex and similar age will live with an assistant--a college student whose passion is mathematics and who will be available around the clock.

Students will have access to all sorts of recreational activities: the University's outdoor athletic facilities (tennis, soccer, frisbee, basketball), its newly-opened disc golf course, as well as University Village's swimming pool and beach volleyball courts.

### Santa Cruz Location

UC Santa Cruz offers the academic excellence of a world-class research university within a unique small-college setting. It is nestled on 2,000 acres of redwood forest and meadows, overlooking Monterey Bay. Its students and faculty affiliate with ten residential colleges, each with unique architecture and environment.

The residence hall floors, typically shared by 12 to 20 students, have common bathrooms and lounge areas. UC Santa Cruz has an award-winning dining program that offers virtually any type of food you can imagine while delivering the utmost in quality.

For both locations, in addition to providing access to the university's facilities, the staff will organize special events on weekends.

All activities at the camp are supervised. We make our students' safety our top priority.

## LEONARDO URBINA, Massachusetts Institute of Technology

IMO Honorable Mention (2004)  
Iberoamerican Math Olympiad Silver Medalist (2005)

## VISITING Faculty

**NAOKI SATO**, Art of Problem Solving (2005 – present)  
First Place on Canadian Mathematical Olympiad, 1993  
IMO Silver Medalist, 1992, Bronze Medalist, 1993  
Deputy Leader of the Canadian IMO team (1997, 2002, 2006)  
Member of the Canadian Mathematical Olympiad Committee

## MENTORS AND Assistants

Mentors and assistants are graduate or undergraduate students who will share with the students their knowledge, experience, and love of mathematics. Many are former Olympiad students with an outstanding record in the IMO. They will also conduct the camp's problem sessions.