

2001 Interdisciplinary Contest in Modeling Press Release—March 21, 2001

COMAP is pleased to announce the results of the 3rd annual Interdisciplinary Contest in Modeling (ICM). This year, 83 teams representing 58 institutions from 5 countries participated in the contest. The following institutions had teams designated as this year's three OUTSTANDING WINNERS:

Lewis and Clark College, Portland, OR
Humboldt State University, Arcata, CA
Harvey Mudd College, Claremont, CA.

This year's contest began at 12:01 a.m. on Friday, February 9 and officially ended at 11:59 p.m. on Monday, February 12, 2001. During that time, teams of up to three undergraduate or high school students were to research and submit an optimal solution for an open-ended modeling problem. The 2001 ICM marked the inaugural year for the new on-line contest, and it was a great success. Students were able to effectively register, obtain contest materials, download the problem at the appropriate time, and enter data all through COMAP'S ICM website. This new on-line contest procedure is age and economically appropriate, and encourages a more efficient ICM for the future.

This year's zebra mussel problem proved to be particularly challenging in that it contained a large amount of data to be analyzed, had several challenging requirements needing

ICM is an extension of COMAP's Mathematical Contest in Modeling (MCM), which is held during the same weekend. ICM was designed to develop and advance interdisciplinary problem-solving skills as well as competence in written communication. The interdisciplinary problems involve concepts from mathematics, environmental science, environmental engineering, biology, and/or resource management. Each team is expected to have advisors and team members who represent a range of interests in applied problem solving.

To obtain additional information about the ICM and to obtain a complete listing of all team designations, please visit the MCM web site at: www.comap.com/undergraduate/contests/icm, or contact Clarice Callahan, Contest Coordinator, at: c.callahan@mail.comap.com.

Major funding for the ICM is provided by a grant from the National Science Foundation and COMAP. Additional support is provided by The Institute for Operations Research and the Management Sciences (INFORMS). COMAP's Mathematical Contest in Modeling and Interdisciplinary Contest in Modeling are unique among modeling competitions in that they are the only international contests in which students work in teams to find a solution. Centering its educational philosophy on mathematical modeling, COMAP uses mathematical tools to explore real-world problems. It serves the educational community as well as the world of work by preparing students to become better informed—and prepared—citizens.



Major funding provided by
The National Science Foundation

Administered by
The Consortium for Mathematics
and Its Applications

Contest Directors

Chris Arney, *College of Saint Rose, NY*
John H. Grubbs, *Tulane University, LA*

Executive Director

Solomon A. Garfunkel, *COMAP, Inc., MA*

scientific and mathematical connections, and also had the ever-present requirements to use creativity, precision, and effective communication. The author of the problem, Sandra Nierzwicki-Bauer, was one of the final graders and will write the author's commentary for COMAP's *The UMAP Journal*. All Outstanding solution papers will also be published in *The UMAP Journal*.

2001 ICM Statistics

- 171 teams registered and 83 participated (49%)
 - 40 U.S. Teams (48%) from 32 institutions
 - 43 Foreign Teams (52%) from Canada, Finland, Hong Kong, Ireland, and P.R. China
 - 3 Outstanding Winners (4%)
 - 14 Meritorious Winners (17%)
 - 28 Honorable Mentions (34%)
 - 38 Successful Participants (45%)
 - 77 four-year institutions (93%)
 - 4 two-year institutions (5%)
 - 2 high schools (2%)
-

Associate Directors

Michael Kelley, *U.S. Military Academy, NY*
Gary W. Krahn, *U.S. Military Academy, NY*

2001 Interdisciplinary Contest in Modeling (ICM) Final Results Report

Institution	City	ST	Control #	Advisor		Designation
Harvey Mudd College	Claremont	CA	131	Michael	Moody	Outstanding - INFORMS
Humboldt State University	Arcata	CA	128	Eileen	Cashman	Outstanding
Lewis and Clark College	Portland	OR	91	Robert	Owens	Outstanding
Beijing Univ. of Posts & Telecommunications	Beijing		50	Zuguo	He	Meritorious
Beijing Univ. of Posts & Telecommunications	Beijing		51	Zuguo	He	Meritorious
Dickinson College	Carlisle	PA	165	Brian	Pedersen	Meritorious
East China University of Science &	ShangHai		19	Xiwen	Lu	Meritorious
Harvey Mudd College	Claremont	CA	130	Michael	Moody	Meritorious
NC School of Science and Mathematics	Durham	NC	108	Dot	Doyle	Meritorious
Northwestern Polytechnical University	Xi'an		120	Xiao	Yong	Meritorious
South China Uneversity of Technology	Guangzhou		54	He	Chunxiong	Meritorious
Southeast University	Nanjing		162	Zhi-zhon	Sun	Meritorious
University College Dublin	Dublin		68	Ted	Cox	Meritorious
University of Science and Technology of	Hefei		142	Dacheng	Tao	Meritorious
Villa Julie College	Stevenson	M	96	Eileen	McGraw	Meritorious
Zhejiang University	Hangzhou		24	Qifan	Yang	Meritorious
Zhejiang University	Hangzhou		25	Yong	He	Meritorious
Asbury College	Wilmore	KY	145	David	Coulliette	Honorable Mention
Asbury College	Wilmore	KY	146	David	Coulliette	Honorable Mention
Carroll College	Helena	MT	141	Kyle	Strode	Honorable Mention
Chongqing University	Chongqing		69	He	Renbin	Honorable Mention
Chongqing University	Chongqing		70	He	Renbin	Honorable Mention
Clarion University	Clarion	PA	164	Andy	Turner	Honorable Mention
Clatsop Community College	Astoria	OR	103	Michael	Vorwerk	Honorable Mention
Dalian University of Technology	Dalian		56	Zhao	Lizhong	Honorable Mention
Elon College	Elon College	NC	75	Crista	Coles	Honorable Mention
Fudan University	Shanghai		38	Zhijie	Cai	Honorable Mention
Gordon College	Wenham	M	160	Dorothy	Boorse	Honorable Mention
Hefei University of Technology	Hefei		65	Huaming	Su	Honorable Mention
Luther College	Decorah	IA	126	Reginald	Laursen	Honorable Mention
Mathematics School of Nankai University	Math		71	Fu	Lei	Honorable Mention
MIT	Cambridge	M	134	Michael	Brenner	Honorable Mention
Monmouth College	Monmouth	IL	115	Christop	Fasano	Honorable Mention
Päivölä College	Tarttila		81	Merikki	Lappi	Honorable Mention

2001 Interdisciplinary Contest in Modeling (ICM) Final Results Report

Institution	City	ST	Control #	Advisor		Designation
Roberts Wesleyan College	Rochester	NY	6	Carlos	Pereira	Honorable Mention
South China University of Technology	Guangzhou		55	Xie	Lejun	Honorable Mention
Southeast University	Nanjing		161	Zhi-zhon	Sun	Honorable Mention
University College Dublin	Dublin		67	Ted	Cox	Honorable Mention
University of Science and Technology of	Hefei		143	Guangzh	Sun	Honorable Mention
USMA	West Point	NY	72	Scott	Nestler	Honorable Mention
USMA	West Point	NY	73	Michael	Jaye	Honorable Mention
Youngstown State University	Youngstown	OH	15	Thomas	Smotzer	Honorable Mention
Youngstown State University	Youngstown	OH	16	Scott	Martin	Honorable Mention
Zhongshan University	GuangZhou		114	Zhuojian	Yuan	Honorable Mention
Zhongshang University	GuangZhou		94	Mengxi	Tang	Honorable Mention
Anhui University	Heifei		43	Wang	Hai-xian	Successful Participant
Austin Peay State University	Clarksville	TN	147	Nell	Rayburn	Successful Participant
Beijing University of Aeronautics &	Beijing		140	Guiping	Lin	Successful Participant
Chesterfield County Math & Science H.S.	Midlothian	VA	4	Diane	Leighty	Successful Participant
Colorado Northwestern Community College	Rangely	CO	63	Richard	Knaub	Successful Participant
Colorado Northwestern Community College	Rangely	CO	64	Richard	Knaub	Successful Participant
East China University of Science &	ShangHai		20	Yuanhon	Lu	Successful Participant
Eastern Oregon University	La Grande	OR	167	Richard	Hermens	Successful Participant
Elon College	Elon College	NC	76	Crista	Coles	Successful Participant
Florida A&M University	Tallahassee	FL	149	Bruno	Guerrieri	Successful Participant
Fudan University	Shanghai		37	Zhijie	Cai	Successful Participant
Harbin Institute of Technology	Harbin		10	Shouting	Shang	Successful Participant
Harbin Institute of Technology	Harbin		11	Shouting	Shang	Successful Participant
Hefei University of Technology	Hefei		66	Huaming	Su	Successful Participant
Hong Kong Baptist University	Kowloon		8	Chong	Tong	Successful Participant
Macalester College	St. Paul	M	99	Peter	Vaughan	Successful Participant
Mount Marty College	Yankton	SD	47	Bonita	Gacnik	Successful Participant
Mount Marty College	Yankton	SD	48	Bonita	Gacnik	Successful Participant
Northeastern University	Shenyang		53	Dingyu	Xue	Successful Participant
Northwestern Polytechnical University	Xi'an		133	Nie	Feng	Successful Participant
Päivölä College	Tarttila		80	Merikki	Lappi	Successful Participant
Peking University	Beijing		13	Ping	Ma	Successful Participant
Rogue Community College	Grants Pass	OR	166	John	Salinas	Successful Participant

2001 Interdisciplinary Contest in Modeling (ICM) Final Results Report

Institution	City	ST	Control #	Advisor		Designation
Rowan University	Glassboro	NJ	116	Hieu	Nguyen	Successful Participant
School of Mathematical Sciences, Peking	Beijing		2	Tao	Zhang	Successful Participant
Shanghai Jiaotong University	Shanghai		121	Peimin	Gong	Successful Participant
Shanghai Jiaotong University	Shanghai		122	Peimin	Gong	Successful Participant
Sierra Nevada College	Incline	NV	169	Steven	Ellsworth	Successful Participant
Simpson College	Indianola	IA	32	Steve	Emerman	Successful Participant
SUNY Geneseo	Geneseo	NY	62	Christop	Leary	Successful Participant
The Experimental High School Of Beijing	Beijing		45	Jiangci	Wang	Successful Participant
University of Central Oklahoma	Edmond	OK	119	Jesse	Byrne	Successful Participant
University of Saskatchewan	Saskatoon		31	Tom	Steele	Successful Participant
University of Southern Colorado	Pueblo	CO	79	Bruce	Lundberg	Successful Participant
Villa Julie College	Stevenson	M	95	Eileen	McGraw	Successful Participant
Xi'an Jiaotong University	Xi'an		34	He	Xiaoliang	Successful Participant
Xi'an Jiaotong University	Xi'an		35	He	Xiaoliang	Successful Participant
Xi'an Universty of Technology	Xi'an		137	Xie	Long	Successful Participant