

NEWS RELEASE
2000 High School Mathematical Modeling Contest

The Consortium for Mathematics and Its Applications (COMAP) is pleased to announce the results of the second annual High School Mathematical Contest in Modeling (HiMCM). 128 teams competed out of the 168 registered teams from 72 schools from across the country. Teams, of up to four students in each, worked at their own school during a designated 24-hour period during February 17-23, 2000.

This year's contest offered students two open-ended mathematical modeling questions from which to choose. The A Problem asked teams to develop an efficient algorithm to allow police to sweep an area where a robbery has taken place so that the robbers would be forced into established roadblocks. The B Problem saluted the election year by revisiting the electoral vote process, asking teams to create a mathematical model that is different from the current system, including a justification for the submitted system over the status quo.

Eleven teams were deemed National Outstanding Winners by the judges and they are:

Arkansas School for Math and Science,
Hot Springs, AR
Chesterfield County Math & Science High School, Midlothian, VA
Goldberg Home School, Boulder, CO
Governor's School for Government and International Studies, Richmond, VA
Hunter College High School, New York, NY

Illinois Math and Science Academy, Aurora, IL
Severn School, Severna Park, MD
Vestal High School, Vestal, NY
Westminster Schools, Atlanta, GA
Wilmington Area High School, New, PA
Waterloo Collegiate Institute, Waterloo, Ontario, Canada.

2000 HiMCM Statistics

Problem	National Outstanding	%	Regional Outstanding	%	Meritorious	%	Honorable Mention	%	Successful Participant	Total
A	4	3.13%	2	1.56%	15	11.72%	13	10.16%	8	42
B	7	5.47%	1	0.78%	27	21.09%	33	25.78%	18	86
Total	11	8.59%	3	2.34%	42	32.81%	46	35.94%	26	128

All schools are to be commended for their efforts, see the complete results report for a listing of all the team designations. The judges were impressed with all the teams' creativity and ingenuity in mathematical modeling, and in their ability to explain their strategies and problem-solving techniques in clear terms. Each participant is a true winner.

HiMCM is made possible by COMAP, Inc. under a grant from The National Science Foundation. Additional support is provided by the Institute for Operations Research and the Management Sciences (INFORMS), The Mathematical Association of America (MAA), and The National Council of Teachers of Mathematics (NCTM).

Project Directors include John A. Dossey, Distinguished University Professor of Mathematics Emeritus, Illinois State University, and Frank Giordano, COMAP, Inc. The Contest Director is Bill Fox, Chairman of the Department of Mathematics, Francis Marion University.

For additional information please visit the HiMCM website at www.comap.com or contact Clarice Callahan, Contest Coordinator at 781-862-7878 x 37 or by email at c.callahan@pop.comap.com

**2000 HIGH SCHOOL MATHEMATICAL CONTEST IN MODELING (HIMCM)
COMPLETE RESULTS REPORT**

Control #	Institution:	City:	State:	Advisor:	Problem :	Designation :
92	Severn School	Severna Park	MD	Kalla Sparrow	A	National Outstanding
166	Vestal High School	Vestal	NY	Ms. Jean King	A	National Outstanding
58	Waterloo Collegiate Institute	Waterloo		Michael Burns	A	National Outstanding
111	Westminster Schools	Atlanta	GA	Landy Godbold	A	National Outstanding
90	Evanston Township High School	Evanston	IL	John Benson	A	Regional Outstanding
68	Madison East High School	Madison	WI	Cynthia Chin	A	Regional Outstanding
110	Albany High School	Albany	CA	Mr. Richard Lohman	A	Meritorious
95	Arkansas School for Math & Sciences	Hot Springs	AR	Bruce Turkal	A	Meritorious
163	Bronxville High School	Bronxville	NY	Dr. Mariam Leo	A	Meritorious
130	Chaney High School	Youngstown	OH	James Cochran	A	Meritorious
79	Chesterfield County Math & Science High	Midlothian	VA	Diane Leighty	A	Meritorious
98	Edwin O. Smith High School	Storrs	CT	George E. Parker	A	Meritorious
122	Germantown Academy	Fort Washington	PA	Ruth Carver	A	Meritorious
123	Germantown Academy	Fort Washington	PA	Paul Henry	A	Meritorious
137	Heritage High School	Saginaw	MI	Sandy Terbrack	A	Meritorious
17	Illinois Mathematics and Science Academy	Aurora	IL	Ronald Vavrinek	A	Meritorious
48	Kentlake High School	Kent	WA	Robin D. Washam	A	Meritorious
160	Mills E. Godwin High School	Richmond	VA	Ann Sebrell	A	Meritorious
161	Mills E. Godwin High School	Richmond	VA	Ann Sebrell	A	Meritorious
6	South Forsyth High School	Cumming	GA	Linda Wright	A	Meritorious
134	Wachusett Regional High School	Holden	MA	Jim Barys	A	Meritorious
78	Chesterfield County Math & Science High	Midlothian	VA	Diane Leighty	A	Honorable Mention
91	Evanston Township High School	Evanston	IL	John Benson	A	Honorable Mention
148	Garfield High School	Seattle	WA	Elissa Farmer	A	Honorable Mention
20	Maine School of Science & Mathematics	Limestone	ME	Joe Siddiqui	A	Honorable Mention
34	Mater Dei High School	Clinton	IA	Sister Martha Ryder	A	Honorable Mention
62	Milton High School	Milton,	MA	Sharon Hessney	A	Honorable Mention
87	Mississippi School for Math & Science	Columbus	MS	Claudia Carter	A	Honorable Mention
149	New School for Arts & Sciences	Bornx	NY	Mary Kirsch	A	Honorable Mention
80	Prescott High School	Prescott	AZ	Sherry Baca	A	Honorable Mention
81	Prescott High School	Prescott	AZ	Jeri Hamilton	A	Honorable Mention
42	Skowhegan Area High School	Skowhegan	ME	Alan Campbell	A	Honorable Mention
43	Skowhegan Area High School	Skowhegan	ME	Alan Campbell	A	Honorable Mention
32	White Station High School	Memphis	TN	Sandra Halfacre	A	Honorable Mention
120	Claremont High School	Claremont	CA	Marcia Andrus	A	Successful Participant
24	East Bakersfield High School	Bakersfield	CA	Joyce L. Brown	A	Successful Participant
107	Fredericksburg High School	Fredericksburgh	TX	Emil J. Shandua	A	Successful Participant
74	Lancaster High School	Lancaster	NY	Brian M. Wiesinger	A	Successful Participant

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37	Lawndale High School	Lawndale	CA	Sandra Cruz	A	Successful Participant
1	Logan High School	Logan	UT	Dave Reynolds	A	Successful Participant
36	Mater Dei High School	Clinton	IA	Sister Martha Ryder	A	Successful Participant
101	Northern University High School	Cedar Falls	IA	Suzanne Buckwalter	A	Successful Participant
96	Arkansas School for Math & Sciences	Hot Springs	AR	Bruce Turkal	B	National Outstanding
77	Chesterfield County Math & Science High	Midlothian	VA	Diane Leighty	B	National Outstanding
127	Goldberg Home School	Boulder	CO	David Goldberg	B	National Outstanding
146	Governor's School for Government & Intl.	Richmond	VA	Crista Hamilton	B	National Outstanding
19	Hunter College High School	New York	NY	Mr. David Hankin	B	National Outstanding
16	Illinois Mathematics and Science Academy	Aurora	IL	Ronald Vavrinek	B	National Outstanding
157	Wilmington Area High School	New Wilmington	PA	Barbara T. Faires	B	National Outstanding
7	Ladue Horton Watkins	St. Louis	MO	Jim Moser	B	Regional Outstanding
109	Albany High School	Albany	CA	Ms. Elizabeth Klein	B	Meritorious
97	Arkansas School for Math & Sciences	Hot Springs	AR	Bruce Turkal	B	Meritorious
152	California Academy of Math & Science	Carson	CA	Brian Lawler	B	Meritorious
119	Claremont High School	Claremont	CA	Karen Lucke	B	Meritorious
88	Cumberland Valley High School	Mechanicsburg	PA	Robert Tate	B	Meritorious
5	Davidson Fine Arts School	Augusta	GA	Jacqueline Allison	B	Meritorious
84	Ellis School	Pittsburgh	PA	Amy Gleason	B	Meritorious
103	Fitch High School	Austintown	OH	Tom Reardon	B	Meritorious
104	Fitch High School	Austintown	OH	Tom Reardon	B	Meritorious
29	Frontier Regional School	South Deerfield	MA	Patricia Taylor	B	Meritorious
31	Frontier Regional School	South Deerfield	MA	Patricia Taylor	B	Meritorious
121	Germantown Academy	Fort Washington	PA	Ruth Carver	B	Meritorious
168	Gresham High School	Gresham	OR	Dave Dubose	B	Meritorious
136	Haddon TWP. High School	Westmont	NJ	Edward L. Dodd, Jr.	B	Meritorious
18	Illinois Mathematics and Science Academy	Aurora	IL	Ronald Vavrinek	B	Meritorious
75	Lancaster High School	Lancaster	NY	Barbara E. MocarSKI	B	Meritorious
39	Lynden High School	Lynden	WA	Bruce Woodcock	B	Meritorious
69	Madison East High School	Madison	WI	Cynthia Chin	B	Meritorious
139	Mass Academy of Math & Science	Worcester	MA	Bob Knittle	B	Meritorious
140	Mass Academy of Math & Science	Worcester	MA	Bob Knittle	B	Meritorious
133	Mineral Ridge High School	Mineral Ridge	OH	Mrs. Virginia Blaney	B	Meritorious
86	Mississippi School for Math & Science	Columbus	MS	Claudia Carter	B	Meritorious
66	Oceanside High School	Oceanside	NY	Martin Rudolph	B	Meritorious
113	Ramaz Upper School	New York	NY	Mrs. Elaine Gorfinkle	B	Meritorious
93	Severn School	Severna Park	MD	Kalla Sparrow	B	Meritorious
143	Sidwell friends	Washington	DC	John Mahoney	B	Meritorious

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117	Westfield High School	Westfield	NJ	Cathy Trapani	B	Meritorious
153	Bedford High School	Bedford	MA	Mr. Sean McGowan	B	Honorable Mention
128	Bronxville High School	Bronxville	NY	Dr. Mariam Leo	B	Honorable Mention
129	Bronxville High School	Bronxville	NY	Dr. Mariam Leo	B	Honorable Mention
151	California Academy of Math & Science	Carson	CA	Brian Lawler	B	Honorable Mention
115	Cedar Rapids/Marion Home Schooling	Cedar Rapids	IA	Robert F. Gaebler	B	Honorable Mention
131	Chaney High School	Youngstown	OH	James Cochran	B	Honorable Mention
135	Charlotte County Day School	Charlotte	NC	Sheila McGrail	B	Honorable Mention
156	Charlotte County Day School	Charlotte	NC	Sheila McGrail	B	Honorable Mention
60	Cherry Hill High School West	Cherry Hill	NJ	Mark Pinzur	B	Honorable Mention
23	East Bakersfield High School	Bakersfield	CA	Joyce L. Brown	B	Honorable Mention
105	Fitch High School	Austintown	OH	Tom Reardon	B	Honorable Mention
30	Frontier Regional School	South Deerfield	MA	Patricia Taylor	B	Honorable Mention
167	Gresham High School	Gresham	OR	Dave Dubose	B	Honorable Mention
55	Hall High School	W. Hartford	CT	Donna Anderson	B	Honorable Mention
145	Lafayette High School	Ballwin	MO	Susan Curtis	B	Honorable Mention
67	Madison East High School	Madison	WI	Cynthia Chin	B	Honorable Mention
21	Maine School of Science & Mathematics	Limestone	ME	Joe Siddiqui	B	Honorable Mention
141	Mass Academy of Math & Science	Worcester	MA	Bob Knittle	B	Honorable Mention
35	Mater Dei High School	Clinton	IA	Sister Martha Ryder	B	Honorable Mention
89	McClintock High School	Tempe	AZ	James Gibson	B	Honorable Mention
162	Mills E. Godwin High School	Richmond	VA	Ann Sebrell	B	Honorable Mention
147	Mt. Whitney High School	Visalia	CA	Charles Dichiera	B	Honorable Mention
102	Northern University High School	Cedar Falls	IA	Dennis Kettner	B	Honorable Mention
64	Oceanside High School	Oceanside	NY	Martin Rudolph	B	Honorable Mention
65	Oceanside High School	Oceanside	NY	Martin Rudolph	B	Honorable Mention
71	Roseburg High School	Roseburg	OR	Kim Clary	B	Honorable Mention
14	Saginaw Arts & Sciences Academy	Saginaw	MI	Dan Sealey	B	Honorable Mention
142	Sidwell friends	Washington	DC	Joan Reinthaler	B	Honorable Mention
44	Skowhegan Area High School	Skowhegan	ME	Denis Obert	B	Honorable Mention
40	St. Louis University High School	St. Louis	MO	Tom Becvar	B	Honorable Mention
61	Sylvania Northview High School	Sylvania	OH	Allen Burns	B	Honorable Mention
52	Terre Haute South Vigo High School	Terre Haute	IN	Susan Clements	B	Honorable Mention
53	Terre Haute South Vigo High School	Terre Haute	IN	Sam Ligget	B	Honorable Mention
150	California Academy of Math & Science	Carson	CA	Brian Lawler	B	Successful Participant
106	Fredericksburg High School	Fredericksburgh	TX	Emil J. Shandua	B	Successful Participant
108	Fredericksburg High School	Fredericksburgh	TX	Emil J. Shandua	B	Successful Participant
138	Heritage High School	Saginaw	MI	Sandy Terbrack	B	Successful Participant

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41	Home School	Stillwater	OK	Mrs. Pratima Karpe	B	Successful Participant
47	Kentlake High School	Kent	WA	Robin D. Washam	B	Successful Participant
3	Logan High School	Logan	UT	Roger Wilson	B	Successful Participant
169	Madison East High School	Madison	WI	Cynthia Chin	B	Successful Participant
49	Murrieta Valley High School	Murrieta	CA	Howard S. Nelson	B	Successful Participant
100	Northern University High School	Cedar Falls	IA	James Maltas	B	Successful Participant
85	Norview High School	Norfolk	VA	Joe Joyner	B	Successful Participant
82	Prescott High School	Prescott	AZ	Joan Tomoff	B	Successful Participant
26	Prior Lake Sr. High	Prior Lake	MN	Katy Hallberg	B	Successful Participant
27	Prior Lake Sr. High	Prior Lake	MN	Katy Hallberg	B	Successful Participant
28	Prior Lake Sr. High	Prior Lake	MN	Katy Hallberg	B	Successful Participant
72	Roseburg High School	Roseburg	OR	Kim Clary	B	Successful Participant
144	Sidwell friends	Washington	DC	Eric Steadman	B	Successful Participant
33	White Station High School	Memphis	TN	Sandra Halfacre	B	Successful Participant