

2009 SCIENCE FAIR PROGRAM BOOK



59th Annual Chicago Public Schools Student Science Fair

SHAPING OUR FUTURE

Through Science and Mathematics



Museum of Science and Industry | March 24 – March 29, 2009

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Symposium Presentation, March 26, 2009 – Sponsored by:





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Motorola is proud to support the Chicago Public Schools' Student Science Fair. Together, we're helping create an environment where students have the freedom to take their ideas as far as they can imagine. Where creativity has room to stretch. And where discovery always has a future.



2009 Science Fair Program Book

**59th Annual Chicago Public Schools
Student Science Fair**

*Shaping Our Future
Through Science and Mathematics*

Chicago Public Schools
CPS Student Science Fair, Inc.
Office of Mathematics and Science
Office of the Chief Executive Officer
Office of the Chief Education Officer

Museum of Science and Industry

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Schedule of Events

Thursday, March 26, 2009 – Symposium – details on page 23

9:30 A.M. – 11:30 A.M.	Symposium Morning Sessions (Balcony Classrooms)
11:30 A.M. – 12:45 P.M.	Symposium Luncheon (Columbian Room)- <i>by invitation only</i>
1:00 P.M. – 3:30 P.M.	Symposium Afternoon Sessions (Balcony Classrooms)

Friday, March 27, 2009 – Exhibit Judging – details on page 27

7:30 A.M. – 8:30 A.M.	Judges Briefing and Breakfast (Auditorium)
8:30 A.M. – 12:00 NOON	Judging of Exhibits (West Pavilion)
11:00 A.M. – 11:30 A.M.	Opening Ceremony (West Pavilion Main Entrance)
11:30 A.M. – 12:00 P.M.	Ribbon Cutting and Exhibit Tour (West Pavilion)
11:30 A.M. – 1:30 P.M.	Judges Buffet Luncheon (Great Train Story)
12:00 NOON – 1:00 P.M.	Recognition Luncheon (Columbian Room) - <i>by invitation only</i>
12:00 NOON – 1:00 P.M.	Judging Continues (West Pavilion)
1:00 P.M. – 3:15 P.M.	Science Fair Open to the Public (West Pavilion)

Saturday, March 28, 2009 – Public viewing and additional events

9:00 A.M. – 11:30 A.M.	Sixth-Grade Area Winners Tour of the Museum
9:30 A.M. – 3:15 P.M.	Science Fair Open to the Public (West Pavilion)
9:30 A.M. – 3:00 P.M.	International Science and Engineering Fair Judging (Auditorium)
11:45 A.M. – 1:00 P.M.	Sixth-Grade Area Winners Luncheon (Columbian Room) – p. 44
2:00 P.M. - 2:30 P.M.	Bangs, Flashes and Fire Chemistry Show (Auditorium)
2:00 P.M. – 3:00 P.M.	Science Club Social (Columbian Room) – <i>by invitation only</i>

Sunday, March 29, 2009 – Awards Convocation – details on page 46

11:00 A.M. – 12:00 NOON	Science Fair Open to the Public (West Pavilion)
1:00 P.M. – 3:00 P.M.	Awards Convocation (Auditorium) - <i>by ticket only</i>



Proclamation from the Mayor of the City of Chicago



OFFICE OF THE MAYOR
CITY OF CHICAGO

RICHARD M. DALEY
MAYOR

PROCLAMATION

WHEREAS, from March 24 through March 29, 2009, the Chicago Public Schools, in association with the Museum of Science and Industry, will host the 59th Annual Citywide Chicago Public Schools Student Science Fair; and

WHEREAS, the 2009 Student Science Fair follows the theme *Shaping Our Future Through Science and Mathematics*; and

WHEREAS, approximately 350 students from a total of 10,000 participants at the local school and area levels will be selected to exhibit their projects and symposium papers at the Museum of Science and Industry; and

WHEREAS, 70 of those students will be sent to the Illinois Junior State Science Fair at the University of Illinois at Urbana-Champaign, and four will be sent to the International Science and Engineering Fair in Reno, Nevada; and

WHEREAS, students will compete in sixteen categories, including aerospace science, behavioral science, biochemistry, botany, chemistry, computer programming, earth science, electronics, engineering science, environmental science, health science, materials science, mathematics, microbiology, physics, and zoology;

NOW, THEREFORE, I, RICHARD M. DALEY, MAYOR OF THE CITY OF CHICAGO, do hereby proclaim March 24 to 29, 2009, to be CHICAGO PUBLIC SCHOOLS STUDENT SCIENCE FAIR DAYS IN CHICAGO, in recognition of the exceptional talents displayed by these students and in appreciation of the teacher sponsors and parents who have provided support and encouragement of these young scientists.

Dated this 27th day of January, 2009.


Mayor



Opening Ceremony

On Friday March 28th the 58th Annual Chicago Public Schools Student Science Fair opened with corporate and CPS sponsors' greetings, accolades and words of encouragement for the student scientists at this year's fair.



CPS Chief Executive Officer, Arne Duncan congratulates and encourages science fair participants.



David Mosena, CEO and President of the Museum of Science and Industry, welcomes students, judges, teachers and parents to the 58th CPS Student Science Fair.



Ribbon cutting: - (left to right): Catherine Zimmerman, Hortense Brice, Fidel Marquez, Arne Duncan and David Mosena



BP's Catherine Zimmerman extends congratulations to the student participants, symposium participants and to their parents and teachers.



ComEd's Fidel Marquez congratulates HS science club members at the City Science Fair and relates his experience as a former science fair participant



Opening Ceremony onlookers include former CPS Science Manager Melanie Wojtulewicz (lower left) and Alderman Toni Preckwinkle (to her left)



About the Chicago Public Schools Student Science Fair (SSF)

About the Fair

We are proud to present the 59th Annual Chicago Public Schools (CPS) Student Science Fair. The fair originated in 1950 as a vehicle to encourage and motivate young science students. Since then, a volunteer army of teachers and administrators has sustained this exemplary program. The objectives of the CPS Student Science Fair are to:

- provide opportunities and support for students to conduct authentic research
- expose students to diverse science learning communities
- obtain scholarships for selected Chicago Public Schools graduating seniors
- maintain perpetual interest in fostering scientific research, invention, and technological development
- promote scientific interests and hobbies of students
- conduct an annual science fair, symposium and essay contest

School, Area, and City Science Fairs

More than 12,000 students enter projects, beginning at the local school level. Local school winners exhibit at the area level. Approximately 300 winners from 23 areas are exhibiting at this three-day citywide fair. The CPS Student Science Fair is always held in the spring at the Museum of Science and Industry.

Student Science Symposium and IJAS Essay Contest

Additional components of the fair are the CPS Student Science Symposium and IJAS Essay Contests. High school students participate in the symposium competition, presenting their research to a panel of judges. High school students and 7th- and 8th-graders participate in the essay contests, writing about a given contemporary issue in science.

State and International Fairs

Each year, approximately 50 students are selected to participate in the exhibition, and 25 research paper presentations are delivered at the Illinois Junior Academy of Science (IJAS) State Science Fair. This event is scheduled May 8 and 9, 2009, at the University of Illinois, Champaign-Urbana Campus. In addition,

the four top-scoring students from the CPS Student Science Fair will participate at the International Science and Engineering Fair (ISEF), which will be held in Reno, Nevada, May 10-15, 2009.

Sponsors

Primarily, the CPS Student Science Fair, Inc. has three sponsoring organizations.

The Chicago Public Schools Chief Executive Officer appoints an executive director to oversee the planning for the local school, area, and citywide science fairs. The CPS Office of Mathematics and Science is the host department for CPSSSF, employing the Citywide Science Fair Coordinator and contributing operational funds to run the Fair each year.

The Museum of Science and Industry hosts the citywide fair and provides technical support services to the participants and teacher volunteers.

Chicago-area corporations spearhead the drive within the Chicago business community to obtain the necessary financial support for a successful science fair experience. The Motorola Foundation, BP America Inc., and ComEd, An Exelon Company are this year's corporate sponsors.

How You Can Help

To help the CPS Student Science Fair and encourage young people to consider careers in science and technology, monetary contributions must be solicited. Without this financial support, the school and area fair support, the production of the high quality event of the City Science Fair, and the participation in the state and international science fairs would be greatly limited.

Please consider being a contributor to the operating fund or scholarship fund, or providing special awards and tours prizes.

Please contact Pamela Sherley at CPS Student Science Fair, Inc., P.O. Box 803945, Chicago, IL 60680-3945, or email her at pdsherley@cps.k12.il.us for opportunities to contribute.



Greetings from the President of the Board of Directors Chicago Public Schools Student Science Fair, Inc.

Congratulations and Welcome

Even in these challenging times, we know that our city has a bright future when we see the hard work and achievement of this year's participants in the 59th Annual Student Science Fair and Symposium at the Museum of Science and Industry. This year's theme – Shaping Our Future Through Science and Mathematics – is exactly what our students have done this year. Congratulations to the over 300 students who were chosen from among thousands of local and area science fair participants.

More than 70 of our students will be chosen to represent the Chicago Public Schools at the Illinois Junior Academy of Science State Science Fair May 8 – 9, 2009 at the University of Illinois, Champaign-Urbana. Four of our students will represent the Chicago Public Schools at the International Science and Engineering Fair May 10-15, 2009 in Reno, Nevada. Many of our high schools seniors will receive Science Fair college scholarships from our many supporters and contributors. Everyone who participates is a winner, and can proudly count themselves among the best and the brightest of the Chicago Public Schools.

While the Science Fair showcases our students' achievements in science, math, and engineering, none of these achievements would be possible without the support of many people in our Chicago community. This event is a testimony to the strength and dedication to excellence of the Chicago Public Schools administration and Chicago Mathematics and Science Initiative staff. And let us not forget the teachers, parents, and family members who stand behind every student, and deserve credit for going the extra mile to make their students' participation possible.

The CPS Student Science Fair Board extends its sincere thanks to everyone who contributed time, talent and financial support to the Science Fair. In particular we thank the following: Mayor Richard M. Daley, for his personal commitment to education and to the Fair and our students; all of the officers and leadership of the Chicago Public Schools, who provide us resources, guidance, and on-going support (and we wish former Chicago Public Schools CEO Arne Duncan the best of luck in his new job!); the Museum of Science and Industry President and CEO David Mosena and the museum staff, especially Pam Barry, who provide the home for the Science Fair and ensure its success; the numerous individual and corporate sponsors such as BP, ComEd and Motorola who provide the necessary funds to the Science Fair and its programs; and the many individuals, universi-



ties and colleges who provide scholarships for our students in order to encourage them to pursue their education.

The Science Fair would not be possible without the large number of volunteer judges, the legions of Chicago Public School teachers and administrative staff, both current and retired, who donate their time and expertise at the school, area, citywide, state and international fairs, and who directly provide vital learning experiences to the students. We owe them a great debt of gratitude.

And finally, the Science Fair would not be possible without the commitment of the many Area Science Fair Chairs and their committees. Year after year these individuals work extremely hard to ensure the Fair is always a success! The Board and I want to send a personal, heartfelt thank you to CPS Student Science Fair Executive Director, Pamela D. Sherley and CPS Student Science Fair Chairperson, Edward Scanlon. The commitment of these two individuals exceeds expectations and exemplifies their passion for science education.

William E. Meyer, Jr.

Partner, Schiff Hardin LLP
President of the Board
CPS Student Science Fair, Inc.



Greetings from BP America Inc., Corporate Sponsor

Greetings and Congratulations!

On behalf of BP, I congratulate you on your participation in the 59th Annual Chicago Public Schools Student Science Fair. As the world's future scientists and mathematicians, thank you for sharing your imagination, passion, and pursuit of scientific excellence with us. It is truly inspiring!

BP and our employees who work and live in Chicago are pleased to support your participation in the 2008 Science Fair. Your entries in exhibits, the symposium, and essay contests have put this year's theme – Shaping our Future Through Science and Mathematics – into action. As aspiring scientists, mathematicians, and engineers, you displayed projects throughout the Museum of Science of Industry this week that illustrate numerous hours spent designing, executing, and analyzing authentic scientific investigations. We recognize that your entry represents a significant investment in your time and resources. Moreover, we appreciate the teachers, mentors, family members, and friends who have supported you in your scientific endeavor.

BP is committed to discovering, producing, and distributing energy for today and tomorrow. BP is one of the world's largest energy companies, providing its customers with fuel for transportation, energy for heat and light, retail services, and petrochemical products for everyday items. We believe that education and research are critical to creating a sustainable future for our planet.

We are proud of your many accomplishments. May your Science Fair experience be one step in a lifetime journey filled with innovation and creativity.

Wishing you continued success,

A handwritten signature in black ink that reads "Catherine Zimmerman". The signature is fluid and cursive, with a large, stylized 'Z'.

Catherine M Zimmerman, Ph.D.
BP America Inc.



WELCOME



Greetings,

Congratulations to Chicago's future scientists, mathematicians, and inventors on your participation in the 59th Annual Student Science Fair.

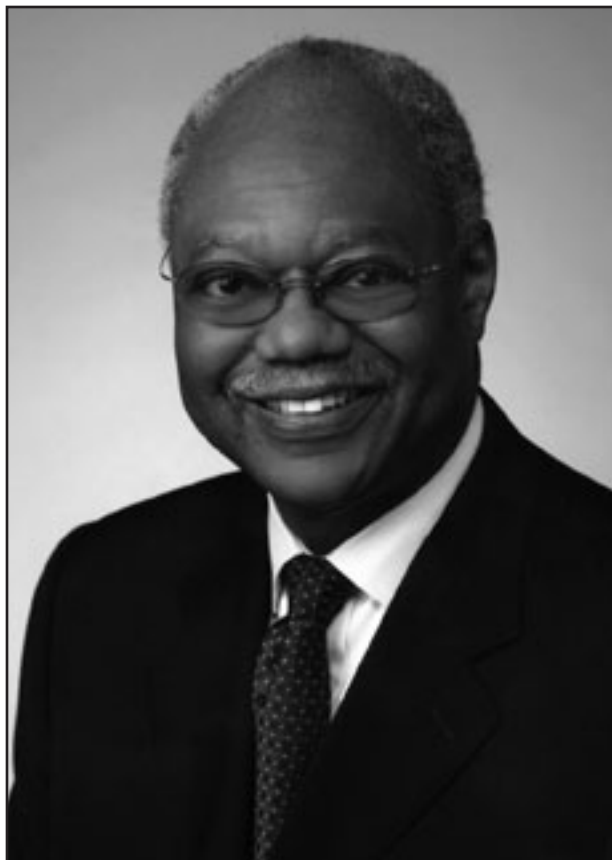
ComEd is a strong supporter of education, in particular math and science. Every day, ComEd engineers and crews are working to keep the lights on and ensure our customers have the electricity they need to support their daily lives at home and at work. It is a great responsibility and we are proud to meet the needs of our customers, now and in the future.

The hundreds of scientists and engineers employed by ComEd were all once students like you. We hope this experience sparks a lifetime of learning, and perhaps even a future career in math or science!

Best wishes for an exciting science fair.

A handwritten signature in black ink that reads 'Frank M. Clark'.

Frank M. Clark
Chairman and Chief Executive Officer
ComEd



ComEd[®]
An Exelon Company



Greetings from Motorola, Corporate Sponsor

Hello Science Fair Participants,

Congratulations! Your entry in the Chicago Public Schools' 2009 Student Science Fair already shows that you're a winner. You have demonstrated the courage to conceive an idea and put it to the test. Putting action behind our curiosity is how we change the world.

Motorola shares your passion for innovation and has been turning new ideas into real-life products here in Chicago for 80 years. Today, Motorola's global team of scientists, engineers and technicians use the scientific process you're demonstrating today to discover and develop new materials, technologies, architectures and algorithms for products that make mobile experiences possible, keep first responders connected and help businesses move data efficiently.

Many of these women and men developed their passion for learning through student projects just like yours. That's why all of us at Motorola are so proud to support you and the 2009 Science Fair.

We extend our thanks to your teachers, parents and volunteers who have helped you reach for the best and spent countless hours making this Science Fair a reality.

And we challenge you to continue dreaming of what can be – and acting on it like you are today.

Best wishes,

Greg Brown
President & Co-CEO
Motorola, Inc.

Dr. Sanjay Jha
Co-CEO
Motorola



WELCOME



Greetings from the Museum of Science and Industry's President and CEO

Welcome to the 59th Annual Chicago Public Schools Student Science Fair at the world-famous Museum of Science and Industry. I congratulate all of you for your hard work in creating impressive science projects. Your efforts truly reflect the Museum's mission to inspire the inventive genius in everyone.

Science and technology are critically important to our well-being, our nation's economic growth, and our world's environment. Climate change, energy, health, security and hunger are just a few of the issues we're facing, and scientific breakthroughs will play an increasing role in overcoming these challenges. The theme of this year's Science Fair, Shaping Our Future Through Science and Mathematics, reflects what lies ahead for you, our new generation of scientists, engineers, explorers and thinkers. I look forward to seeing the concepts and innovations yet to come from all of you.

At the Museum of Science and Industry, our vision is to encourage and motivate our children to reach their full potential in the fields of science, technology, medicine and engineering. We are working to achieve this vision by engaging the community, empowering teachers, and exciting students.

We're creating spectacular, transformative exhibitions that will be sure to spark your imagination. This fall, a new exhibit on the beauty and complexity of the human body called YOU! The Experience will invite you to participate in activities that teach you about your anatomy, physical fitness, and the connections between mind and body. Next year, Science Storms will teach physics and chemistry by featuring one-of-a-kind learning experiences like measuring wind speed while standing inside a 40-foot tornado. And from April 30 to Sept. 7, 2009, the world premiere of Harry Potter: The Exhibition will captivate your imagination.



Good luck to all the participants in this year's Science Fair. Your projects are an inspiration to all of us. We hope you come back to the Museum and find more inspiration, and that you go on to reach your full potential and achieve your dreams.

Best wishes,

David R. Mosena
President and CEO
Museum of Science and Industry



Greetings from the Chicago Public Schools Chief Executive Officer

Greetings!

It is my great pleasure to welcome you to the 59th Annual Chicago Public Schools (CPS) Student Science Fair. This year's theme – *Shaping Our Future through Science and Mathematics* has inspired thousands of students of all ages to conduct their own research and perform their own experiments. Some are taking their first steps as researchers, while others are building on years of focused effort. All, however, follow in the footsteps of scientists and engineers that have developed and continue to work on innovative solutions to serious problems we face today. Every project on display holds a unique promise of future academic achievement. Each submission reflects student's creative thinking, guided by dedicated teachers and encouraging parents.

We invite you to join us in recognizing our talented students. By entering the Science Fair, they have chosen to compete for scholarships and prizes and to try to advance to state and national finals. They have shown commendable hard work, commitment and the willingness to test themselves against their peers.

Through the Chicago Math and Science Initiative, Science in the Schools Day and events like today's fair, we are committed to broadening our students' exposure to and expertise in the field of science. As science and mathematics are part of daily life, it is vital that we continue to provide and support opportunities for our students to learn and excel in both disciplines.

The CPS Student Science Fair has benefited from the generous support of BP America, Inc., ComEd, an Exelon Company and Motorola. With your support and the support of these companies, our students are well on their way to master the analytic tools they need to explore the frontiers of science and mathematics.



Thank you to all of our students for their submissions. I look forward to learning from their work.

Sincerely,

Ron Huberman
Chief Executive Officer
Chicago Public Schools

WELCOME



Greetings from the Chicago Public Schools Chief Education Officer

The Chicago Public Schools (CPS) is pleased to host the 59th Student Science Fair – *Shaping Our Future through Science and Mathematics*. Each year, the CPS Student Science Fair provides an exciting opportunity for CPS students to engage in long-term science projects with the guidance and support of their teachers and parents. This year's fair continues that tradition.

Participation in this unique experience provides students with an authentic vision of how science works through the process of testing a hypothesis, researching a topic, and applying and synthesizing data to form a conclusion. The independent research that they conduct over the months preparing for their projects, combined with what has been taught in the classroom, not only promotes concept comprehension, but also the ability to articulate what has been learned through demonstration. CPS Student Science Fair allows students to observe, experience and communicate how technology and science work together to change and potentially improve the way we live.

CPS is emphasizing science and mathematics instruction with the same intensity we have for literacy. The Chicago Math and Science Initiative (CMSI) was created to ensure that high-quality, standards-based mathematics and science are available to all of our students. Activities such as this fair, exhibit how we continue to increase the number and enhance the quality of these opportunities.

I congratulate all students for the effort put into conceptualizing, researching, developing and perfecting the presentations displayed here today. Your dedication serves as a great example to all CPS students. Your presence today demonstrates that you have already achieved great success and are a winner. I also salute teachers and parents for their committed involvement through the development of these projects.

I extend a special thank you for the ongoing support from our corporate sponsors. My sincere gratitude



goes to the Motorola Foundation, BP America Inc. and ComEd, an Exelon Company. Your generous contributions have provided many valuable resources that support the success of this event.

Again, congratulations to all participants and those who have contributed to the success of our students in the 59th Student Science Fair - *Shaping Our Future through Science and Mathematics*. You have experienced some of the excitement that accompanies careers in mathematics and science and I encourage you to continue exploring this path. These experiences will serve as building blocks that form the foundation for your generation to become leaders in this world, trailblazing new methods of researching and synthesizing data to improve the quality of life. CPS applauds your achievement.

Barbara Eason-Watkins

Barbara Eason-Watkins, Ed.D.
Chief Education Officer
Chicago Public Schools



Greetings from the Office of Mathematics and Science Director

Welcome to the 59th Annual Student Science Fair

In thinking about this year's theme: *Shaping our Future through Science and Mathematics*, it occurred to me that we don't have to look beyond the challenges we face today as a society to appreciate how science, engineering, and mathematics have the potential to profoundly shape our future.

Today, the economic crisis, the environmental crisis and the energy crisis are getting a lot of attention because of the impact they have on our lives. President Barack Obama believes – and many scientists and economists agree – that these crises can be positively addressed if we apply science, engineering, and mathematics to solving them. A thriving U.S. economy can grow out of alternative energy solutions, which in turn will make a difference in environmental quality. When science, engineering, and mathematics are applied to solving contemporary challenges, their impact resonates across our society and into the future. Many of these challenges will not be solved quickly. The work of making new discoveries and applying new solutions to these challenges will be done by scientists, engineers, and mathematicians who are students right now, whose careers in these fields still lie ahead of them.

The Chicago Student Science Fair has been helping shape CPS students' futures for 59 years. Its ongoing success is the result of many – particularly teachers, parents, volunteers, and mentors – who spend untold hours nurturing the minds and guiding the thinking of these students. The return on this investment is scientific literacy. This is invaluable to all of us, whether or not these students go on to careers in science, engineering, or mathematics. The future of our society requires a scientifically literate workforce, as well as a populace that appreciates the importance of science education.

As you review the science projects on display here this week, imagine where they might lead. It is quite possible that one or more of tomorrow's leading scientists will emerge from this year's CPS Science Fair and that a future scientific or engineering breakthrough may have its roots in a project you see at the Science Fair today. Also consider how the skills and experiences represented collectively by this group of young people demonstrate the potential to tackle scientific challenges. Because of the success they have achieved with their science project, over 300 CPS students are better prepared to think analytically about



scientific questions and how science, engineering, and mathematics can help address the challenges our society faces – now and in the future.

To every student participant in this year's Citywide Student Science Fair, please know that we are so proud of the effort – the time, energy, thoughtfulness, creativity, organization, and patience – you have invested in your project, as it culminates here at the Museum of Science and Industry. Your participation in Science Fair recognizes your significant academic achievement, and we are pleased to celebrate it with you. All of us involved with Science Fair hope your experience this week is a satisfying conclusion to the journey that you started so many months ago.

To the many adults who generously shared their time as mentors, judges, organizers, donors, and volunteers, thank you for helping make the CPS Citywide Science Fair a vibrant and valuable experience for Chicago's students. I am grateful to have your support as we work together to help shape the future.

Sincerely,

Chandra James
Director, Office of Mathematics and Science
Chicago Public Schools



Greetings from the Chicago Public Schools Chief Officer for High Schools and High School Programs!

This year's Chicago Public Schools (CPS) Science Fair theme *Shaping Our Future Through Science and Mathematics* provides a venue for CPS students to hypothesize about ways in which science may continue to transform society from the smokestack industry of old to one more dynamic and technologically-advanced, able to compete in today's global economy by creating additional jobs and opportunities for its citizens.

Perhaps even more importantly, however, students involved in the science fair are encouraged to envision a world in which the quality of life is vastly improved for future generations, a critical first step towards "changing the world"—traditionally the province of visionaries, geniuses, and the very young. As one such visionary, English poet William Blake once said, "What is now proved was only once imagined."

Further, by committing time and effort to their research projects, students not only learn firsthand the importance of designing a scientific experiment, collecting and analyzing data, and reaching a conclusion, they also learn other important virtues like diligence, patience, thoroughness and attention to detail—all prized in today's academic and work world and essential to the development of sound character. Also, the collaboration, cooperation, and camaraderie engendered by the participants as they look towards each other to inspire and look deeper is incalculable—essential to developing the critical ability to work together towards a common goal, a hallmark of any successful endeavor.

As you wander through the exhibits this weekend, be sure to engage the young scientists you meet. Have them tell you what their projects mean to them, and listen intently. Ask them questions. Not just for them, but for you as well. Their enthusiasm will elevate you. The future begins with an idea, and it unfolds before you.

Thanks to all the parents, teachers, friends, and community volunteers who encouraged these young people to dream about what might be and helped



guide them through the creative process by sharing their own vision and expertise and giving their time and energy to ensure their success.

I would also like to thank Motorola, BP, and ComEd, our major corporate sponsors, for their generous contributions to the success of the Chicago Public Schools Student Science Fair. Thanks for investing in our country's future by believing in and supporting our students.

David G. Gilligan
Chief Officer
Office of High Schools and High School Programs
Chicago Public Schools



Greetings from the CPS Office of High School Teaching and Learning

This year's science fair theme, *Shaping Our Future Through Science and Mathematics*, is particularly apt and appropriate for 2009. These are tough times for our country, with the news filled every evening with dire stories about wars, recessions, and tragedy. But tough times call for big ideas, and it's clear that science and mathematics will be the tools to shape those ideas. Without doubt, the bedrock of our nation's economy and well-being is scientific and mathematical. From the medicines that keep us healthy, the innovations that create products that drive our markets, to the technologies of Hollywood that inspire and awe us, we are a society based on science and mathematics. With Thomas Friedman writing about how *The World Is Flat*, the internet connecting people from different cultures and regions in remarkable new ways, and the president speaking about competitiveness as a national strategy, now more than ever the general public has realized that science and mathematics are at the heart of America's past and America's future.

With that perspective, it's particularly exciting to welcome students this year to the 59th annual Chicago Public Schools Student Science Fair. To shape our future, look no further than the young men and women who have been chosen by judges to represent their school and instructional area in the citywide science fair. They represent the most accomplished young scientists of Chicago, and in all likelihood, will be the ones making the discoveries and driving the innovation in our country in the years to come. You will see them here first.

As you review the different projects on display, I expect you will marvel at the inventiveness and diversity of the topics that were studied. Think about all the decisions and tradeoffs that were made by students as they took an initial idea and evolved it into a testable question. Consider the many hours that were spent designing and carrying out the investigations, and analyzing the results. Make note of how the students' scientific understanding was advanced by participating in the practice of science. And congratulate the students on completing a serious piece of academic work.

Each of the students in the Science Fair was guided by a mentor. In the most advanced projects, the mentor was likely a research scientist who has taken a talented student under his or her wing and inducted the student



into the world of science and scientists. For most of the projects, the mentor was a parent, teacher, or adult friend, who helped the student think through the investigation, carry out the experiment, and examine the results. The time spent by those adults interacting with the student about his or her Science Fair project may be as valuable as the project itself. In spending this time with the students, the adult mentors have communicated the importance of being scientifically literate and have shown their confidence that the students can and should be successful with science. Also to be commended are the principals, school leaders, and department chairpersons who have made participation in science fair a key component of their overall science education strategy, and use it as an engaging after-school activity for students interested in research.

Each science fair participant deserves congratulations. The many adults who have offered their time - as mentors, judges, organizers, donors, and volunteers - are owed a debt of gratitude, for helping to keep the CPS Citywide Science Fair a vibrant and valuable experience for Chicago's students.

Michael Lach
Officer
Office of High School Teaching and Learning



Greetings from Student Science Fair, Inc. Executive Chairperson

With our world facing changes almost daily, this year's theme of "Shaping Our Future through Science and Mathematics" takes on a whole new meaning. Our world's current methods of water usage, energy production and waste disposal must be revamped to protect our environment.

This science fair is the vehicle our students use to explore, expand and test new ideas.

Our students are intuitive, insightful and always willing to try new things. Our future, their future will be determined by those that have the courage to see a project through to completion. Our science fair students have done just that. They have overcome many obstacles that got in their way in seeking out the answers for change. Their projects will show you how hard they have worked, despite many challenges. Together with their teachers to guide them they are learning to be successful young adults. Any young person who works hard to find new and better answers will truly prove to be an intelligent, competent and successful member of society.

I want to thank all the people that have helped make the science fair such a great success. To the parents and teachers who work directly with the students, to all the people on the various committees, to the Board of Directors, and to the major corporate sponsors – Motorola Foundation, Commonwealth Edison, and BP Foundation I can not say thank you enough. A special thanks to the Museum of Science and Industry for being such a gracious host to our fair for so long. I must also say thanks to all the judges that give of their time to evaluate the projects and are such great inspirations for our students.



Congratulations to all of the students who endeavored to take on the challenges of a science fair project.

Edward Scanlon
Executive Chairperson
Chicago Public Schools Student Science Fair, Inc.



Greetings from Student Science Fair, Inc. Executive Director

Welcome to the 59th Annual Chicago Public Schools Student Science Fair. We are excited to be a part of *Shaping Our Future through Science and Mathematics*.

Each year students participate in various competitions, which allow them to demonstrate some of their intellectual interests reflective of the world in which they live. Students engage in conversations and discussions as well as respond to questions pertaining to their scientific investigations. As a result of their findings and discussions, constructive feedback is provided to the students in an effort to assist to them in taking their projects to the “next level”. Some students may decide to follow through on their findings and continue on to patent a new innovative way to fuel conservation, or even a more effective method of medical treatment. The possibilities are endless!

The Chicago Public School Student Science Fair is an extension of the investigation conducted as a result of classroom instruction. Students are taking an important “next step” by applying their educational observations, experience and creativity to make their own scientific conclusions and discoveries. These results may very well be the solutions for tomorrow.

I would like to thank all of the teachers, parents, and mentors for taking the time to invest in the future of our students. You have provided them with a structured learning environment and the necessary situations to become scientific thinkers. Your support has given them the opportunity to let their lights shine and their imaginations come to life.

Congratulations to all of the student participants. Achieving this level of competition is a tremendous accomplishment. I would like you to take the comments and remarks from the judges as the stepping-stones necessary to take your project to the



next level of exploration. Knowledge is power, and as long as you push beyond the visible boundaries, the power you create for yourself can be limitless.

Sincerely

Pamela D. Sherley
Executive Director
CPS Student Science Fair, Inc.



Corporate Sponsors

Beginning in 1958, the scope and complexity of the Science Fair outgrew the ability of the Chicago Board of Education and the teacher volunteers to continue without financial support from the business community. Illinois Bell Telephone was the first to recognize the importance of this premier academic event to the students of this city and participated as a corporate sponsor.

We are particularly grateful to those at Motorola Foundation, BP America Inc., and ComEd, An Exelon Company whose leadership was essential in helping us obtain the necessary support of local business and industry, and whose generous financial contributions made this year's Science Fair possible.

Over the years, the involvement, responsibilities, and obligations of the corporate sponsor have evolved. Currently, Science Fair asks the following of the corporate sponsor:

- Provide a substantial contribution of up to \$50,000 for operating capital.
- Provide assistance in soliciting additional funds for the balance of the costs incurred. These costs include goods and services, publications, scholarships and grants, support to area fairs and the city fair at the Museum of Science and Industry, and participation at the Illinois Junior Academy of Science State Science Fair and the International Science and Engineering Fair.
- Provide help in securing a corporate sponsor for the next year's Science Fair.

For further information about becoming a corporate sponsor please contact Pamela Sherley at CPS Student Science Fair, Inc., P.O. Box 803945, Chicago, IL 60680-3945. Electronic messages can be sent to pdsherley@cps.k12.il.us

We would greatly appreciate your partnership.

2006-09	BP America, Inc ComEd, An Exelon Company The Motorola Foundation	1983	Peoples Gas
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		1967	Sears, Roebuck and Company
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		1965	Montgomery Ward
		1964	Standard Oil (Indiana)
		1963	Swift & Co.
		1962	Commonwealth Edison
		1961	International Harvester
		1960	Peoples Gas
		1959	U.S. Steel
		1958	Illinois Bell Telephone



Contributors

To all of those who contributed to the operating and scholarship funds, we offer a very special THANK YOU for helping to make the 2009 Science Fair a success.

Operating Fund

Donations to the Operating Fund help produce the City Science Fair, the Area Science Fairs and many programs supporting students' independent research for science fair.

Academic Sponsor

- Chicago Public Schools

Site Sponsor

- Museum of Science and Industry

Corporate Sponsor – up to \$50,000

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Scholarship Fund

Donations to the Scholarship Fund go to qualified high school seniors who have presented a project at an Area Science Fair and will major in science in college.

Benefactors of Academic Scholarships

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- Illinois Institute of Technology
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- Northeastern Illinois University
- Roosevelt University
- University of Chicago
- University of Illinois at Chicago

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If you are interested in supporting the Science Fair or becoming a sponsor, additional information can be obtained by contacting Pamela Sherley at pdsherley@cps.k12.il.us or by sending an inquiry to P.O. Box 803945 Chicago, IL, 60680-3945.

Today, some of Chicago's greatest innovators will be students.

Chicago students explore to develop
innovations for tomorrow.

That's why we're proud to support the
59th Annual Chicago Public Schools
Students Science Fair and its
participants' commitment to take the
world beyond.



beyond petroleum®



Symposium and Essay Contests

Symposium Information

Symposium is an integral and popular feature of the Chicago Public Schools Student Science Fair. This event, held on Thursday, March 26, 2009, takes place at the Museum of Science and Industry. Student presenters from Grades 9–12, through their teacher sponsor, first submitted a scientific research paper. In January, a committee of volunteer readers evaluated these papers and thirty-three research papers were chosen to be presented on March 26th. Each student must have performed the primary research described in their paper, must defend the scientific merit of the research, and display written and oral communication skills. During the Symposium competition, a panel of judges from the scientific, academic, and business communities listen to, question, and evaluate each presentation. Twenty-five finalists are selected to participate at the Illinois Junior Academy of Science (IJAS) State Science Fair at the University of Illinois in Champaign-Urbana, on May 8 and 9, 2009.

Essay Contests

IJAS Essay Contest

Also evaluated by volunteer readers at the January Symposium Reading Session are the essay papers submitted by students from Grades 7–12. As an ancillary activity of the State Science Fair, the IJAS sponsors an essay contest for students who conduct library research and prepare a 1500-word essay on one of the following topics:

- **IJAS Student Essay** – *Some Like it Hot! Some Like it Cold!*
- **Nuclear Essay** – *Nuclear Energy in Agriculture and Food Supply*

The Nuclear Essay is submitted directly to the sponsoring organization for evaluation. Ten of the IJAS student essays are selected as outstanding and the top scoring essay will be forwarded to IJAS for evaluation at the state level.

Chicago BP Essay Competition

BP America Inc. sponsors this essay contest in two grade divisions: 7–8, and 9–12. Students follow the same guidelines established for the IJAS Student essay contest. The top 14 students in both grade categories will win cash awards from \$25 to \$250. This year's topic is *Some Like it Hot! Some Like it Cold!*





Symposium Schedule

Thursday, March 26, 2009

AM Presentation Schedule

Room 1 - Session A 9:00 a.m. to 11:30 p.m.

Exh	Student Name	Grade	Project Title	Category	School	Area
601	Cohen, Ashley	10	Effect of Caffeine on Frogs	Behavioral Science	Lincoln Park	19
602	Puralewski, Rachel	10	Environment Size & Crayfish Aggression	Behavioral Science	Lincoln Park	19
603	Quiroz, Salvador	10	Testing Ant Repellents	Behavioral Science	Curie	23
604	Rangel, Yesmany	10	Effect of Cell Conversation on Reaction Time	Behavioral Science	Curie	23
605	Wu, Jimmy	10	Effects of Ethanol on Brine Shrimp	Behavioral Science	Lincoln Park	19
606	Zhou, Linda	11	Neuropsychological Imbalance	Behavioral Science	Lake View	19

Room 2 - Session B 9:00 a.m. to 11:30 p.m.

607	Andrzejczak, Sylwia	10	Effects of Temperature on Fuel's Density	Environmental Science	Lincoln Park	19
608	Block, Molly	10	Chemical vs Organic Fertilizers	Environmental Science	Whitney Young	21
609	He, Brian	10	Selenium Exposure to Brine Shrimp	Environmental Science	Curie	23
610	Leeds, Zoe	09	Packaged for Life	Environmental Science	Whitney Young	21
611	Salinas, Elizabeth	10	Filter Water vs. Tap Water	Environmental Science	Curie	23

Room 3 - Session C 9:00 a.m. to 11:30 p.m.

612	Enriquez, Selene	11	Factors Affecting Soil Transfer	Earth Science	Curie	23
613	Herrera, Eric	10	Which Type of Wood is Stronger?	Engineering Science	Lincoln Park	19
614	Chiu, Jeffrey	10	Effect of Jello on Light Refraction	Physics	Lincoln Park	19
615	Gomez-Doyle, Sofia	09	Which Bridge Design Sustains the Most Weight?	Physics	Lincoln Park	19
616	Vasilyeva, Irina	12	Effect of Blade Angle on Efficiency	Physics	Lincoln Park	19



Thursday, March 26, 2009

PM Presentation Schedule

Room 1 - Session D 1:00 p.m. to 3:30 p.m.

617	Chlenski, Philippe	09	Effects of Chemicals on Bioassay Results	Biochemistry	Lincoln Park	19
618	George, Terrence	12	Imaging Mitochondrial Ca^{2+} in Beta Cells	Biochemistry	Lincoln Park	19
619	Lyubashevsky, David	10	Effect of Temperature on pH	Chemistry	Lincoln Park	19
620	Reymatias, Mark	10	Power of Plastics	Chemistry	Lincoln Park	19
621	Tsang, Chi	12	Acids and Metal Corrosion	Chemistry	Lincoln Park	19

Room 2 - Session E 1:00 p.m. to 3:30 p.m.

622	Ivery, Alecia	12	Lifestyle and Asthma	Health Science	Bogan	24
623	Xu, Mengyi	11	Micro RNA Expression and Leukemogenesis	Health Science	Lincoln Park	19
624	Carey, Shane	09	Effect of Electricity on <i>E. coli</i>	Microbiology	Lincoln Park	19
625	Cernek, Nicholas	11	Proliferation of Annihilation	Microbiology	Lincoln Park	19
626	Deiss-Yehiely, Elad	09	Effect of Allium Plants on Microbacteria	Microbiology	Lincoln Park	19
627	Kuhn, Rebecca	12	Effect of Antibiotics on <i>E. coli</i>	Microbiology	Lincoln Park	19

Room 3 - Session F 1:00 p.m. to 3:30 p.m.

628	Arteaga, Jennifer	10	Effect of Caffeine on Bean Plants	Botany	Lincoln Park	19
629	Baig, Momina	10	Effects of Wavelengths on Plants	Botany	Curie	23
630	Su, Liang	12	Effect of Water vs. Soil on Green Beans	Botany	Lincoln Park	12
631	Gilmore, Kirsti	12	Expression of HMOX-1 on METH Induced Rats	Zoology	Morgan Park	24
632	Nimmark, Primrose	10	Effect of Ultraviolet Rays on Fruit Flies	Zoology	Lincoln Park	12
633	Pirpiris, Juliette	12	Daphnia: Water Cleanliness Police	Zoology	Taft	12



SYMPOSIUM THURSDAY



Symposium Luncheon Schedule

Thursday, March 26, 2009

Columbian Room – 11:30 a.m.

Welcome

Pamela Sherley
Executive Director
CPS Student Science Fair, Inc.

Remarks

Michael Lach
Officer of
Teaching and Learning
John Loehr, Ph.D.
Science Manager
Office of High School Programs

Introduction of Special Guests

Hortense Brice
Symposium Committee
Chairperson

Symposium Sponsor Remarks

Catherine Zimmerman, Ph.D.
Analyst, BP America Inc.

Recognition of Essay and
Symposium Semifinalists

Catherine Zimmerman, Ph.D.
Hortense Brice
Pamela Sherley
Michael Lach
John Loehr, Ph.D.

Judges' Plaques for
Years of Service

Hortense Brice
Pamela Sherley



Hortense Brice, Symposium
Committee Chairperson



Catherine Zimmerman represents
BP America Inc., sponsor of the
Symposium and BP Essay Contest





Exhibit Information

The 59th Annual CPS Student Science Fair offers academically and scientifically talented young people an opportunity to showcase their accomplishments. The projects on display represent the most outstanding scientific endeavors of students in Grades 7–12.

The exhibitors at this year's CPS Student Science Fair were selected from approximately 12,000 students who competed in school and area science fairs throughout the city during December 2008 and January 2009. These winners were chosen on the basis of their scientific approach, thoroughness, creativity, and presentation.

On Friday, March 27, 2009, over 300 judges from the scientific, academic, and business communities will observe, listen to, question, and evaluate the exhibitors. Winners are selected based on established criteria as indicated in the *2009 Science Fair Handbook*.

The top 50 winners will participate at the Illinois Junior Academy of Science (IJAS) State Science Fair, held May 8 and 9, 2009, on the campus of the University of Illinois, Champaign-Urbana. Students will compete with other students from around the state.

On Saturday, March 28, 2009, the top 35 outstanding high school projects will be evaluated by a special panel of judges. Four finalists will be invited to compete at the International Science and Engineering Fair (ISEF), which is being held May 10 – 15, 2009 in Reno, Nevada.

Some of the judges also function as Special Awards judges for the companies that have graciously sent them to evaluate the exhibitors. Each company may have one or more special criteria, in addition to the established criteria, by which to determine the recipient of its special award.



All CPS Student Science Fair participants will be recognized with certificates and souvenirs at the Awards Convocation on Sunday, March 29, 2009, at 1:00 p.m., in the main auditorium of the Museum of Science and Industry. Approximately 100 students will be individually recognized with cash prizes, awards, and other special gifts. In addition, all CPS Student Science Fair participants are eligible to apply for financial support grants and college scholarships in their senior year of high school.

All CPS Student Science Fair participants are WINNERS!

If you would like to serve as a judge, please contact Yolanda Del Rio at 708-599-3421 or yolanda_delrio@comcast.net to have your name added to the database. At a minimum, judges must have a degree in science, mathematics, computer science, or engineering. They may not be a current employee of the Chicago Public Schools.



EXHIBIT JUDGING
FRIDAY



Exhibit Schedule

Friday, March 27, 2009

Science Fair Exhibit Judging

7:30 A.M. – 8:30 A.M.	Judges Briefing and Breakfast	Main Auditorium
8:30 A.M. – 11:00 A.M.	Judging of Exhibits	West Pavilion
11:00 A.M. – 11:30 A.M.	Opening Ceremony	West Pavilion Main Entrance
11:30 A.M. – 12:00 NOON	Ribbon Cutting and Exhibit Tour	West Pavilion
11:30 P.M. – 1:30 P.M.	Judges Buffet Luncheon	Great Train Story
12:00 NOON – 1:30 P.M.	Recognition Luncheon - <i>by invitation only</i>	Columbian Room
12:00 NOON – 1:00 P.M.	Judging Continues	West Pavilion
1:00 P.M. – 3:15 P.M.	Fair Opens to the Public	West Pavilion



EXHIBIT JUDGING
FRIDAY



Exhibits by Category

Exh	Student Name	Grade	Title	Area	School
Aero Space Science					
1	Jarr, Kevin	8	How Does Wing Curvature Affect Lift?	1	Palmer
2	Crawford, Amanda	11	Coronal Mass Ejections	23	Hope
Behavioral Science					
3	Lopez, Sarah	7	Find the Target	4	Mitchell
4	Meraz, Jocelyn	7	Sensitive To Touch	4	Yates
5	Dima, Raluca Medina, Grisel	7	A Picture Perfect Memory	4	Chopin
6	Tucker, Jaylon	7	Optical Illusions and the Five Senses	23	Lindblom
7	Auger, Claire	8	Memory: Brain Bytes and Stereotypes	1	Farnsworth
8	Barnes, Marilyn	8	Warped Words	8	Irving
9	Espino, Starsky	8	Is Colored Text More Easily Remembered?	1	Albany Park Acad
10	Espinoza, Gissel	8	The Effect of Music	4	Goethe
11	Mendoza, Lidia	8	Afecta El Color?	11	Sawyer
12	Pongsiririt, Ariya	8	Smart Art	4	Mitchell
13	Rios, Arely	8	Stroop Effect	6	Burr
14	Rodarte, Korina	8	The Stroop Effect	11	Fairfield
15	Spears, Karen	8	Cell Phone Text Messaging on Reaction Time	16	Bennett
16	Tran, Elizabeth	8	Purple, Green, Blue, What?	1	Garvy
17	Zamora, Gabriela	8	Does Warping Words Block the Stroop Effect?	1	Sauganash
18	Jones, Debra	9	Feeling Blue?	23	Dyett
19	Lauletta, Thomas	9	Seeing Red	19	Lane
20	Ortiz, Alexandro	9	Effects of Music on Study Habits	19	Lane
21	Gauthier, Jennie	10	You're Guilty! Bias in a Photo Lineup	23	Hyde Park
22	McKinnie, Micheal	10	Music on Your Mind	23	Hyde Park
23	Pietrasienska, Roksana	10	To Talk or Not to Talk	21	Payton
24	Vargas, Arely	10	Shaping Your Thoughts	23	Richards
25	Aranda, Karina	11	Does Age Affect the Ability to Remember?	21	Juarez
26	Flores, Janet	11	Age vs. Memory	24	Washington
27	Mills, Kyia	11	How Do Mealworms Behave in the Environment?	23	Hirsch
28	Steve, Shantell	11	Is Singulair the Loneliest Pill?	24	Julian
29	Thigpen, Denika	11	Age and Memory: How Do They Relate?	25	Bronzeville
30	Thomas, Tonika	11	The Stroop Effect!	25	School of Leadership
31	Zhou, Linda	11	Are You Neuropsychologically Imbalanced?	19	Lake View
32	Sharp, Iesha	12	Sugar Blues	21	Collins
Biochemistry					
33	Ahsan, Najah	7	Denaturation and Coagulation of Protein	2	Disney
34	Bennett, Ayanna	8	Does Gasoline Affect Plant Growth?	15	Ariel
35	Davis, Dara	8	What's Got You Casein?	2	Budlong
36	Lopez, Marvin	8	Burning Calories	1	Monroe



Exhibits by Category

(Biochemistry cont'd)

Exh	Student Name	Grade	Title	Area	School
37	McClendone, Brittney	8	Nut Case	18	Metcalfe
38	Soler, Natalia	8	Does Aging Affect the Amount of DNA? Part II	25	Hale
39	Sowa, Samantha	8	Solving the "Gas" Crisis	3	Locke
40	Spence, Shelby	8	Protein-Based Stains and Enzymes	14	Lenart
41	Alford, Christiane	9	RiNeuronsA	21	W. Young
42	Holt, Kelsey	9	At What Temperature Will Bromelain Denature?	24	Harlan
43	Howard, Demara	9	How Living Tissues React to Changes in pH	21	Crane
44	Khan, Saad	9	Role of FoxO1 & Atrogin-1 on MyHC2 & MyHC4	19	Lane
45	Robinson, Richard	9	How Does CO ₂ Affect Photosynthesis?	23	Dyett
46	Howard, Jourdan	10	The Effects of Sweeteners on Cell Growth	23	Lindblom
47	Sheng, Yutian	10	Eggshell = Filter	21	W. Young
48	Harper, Naomi	11	ECG Cytotoxicity Assay in BV2 Cell Line	24	Chicago Ag.
49	Miles, Che	11	Hell-O Good-Bye Jell-O	24	Bogan
50	Ahmad, Aisha	12	Effect of Vitamin D in Prostate Cancer	19	Northside
51	George, Terrence	12	Imaging Mitochondrial Ca ²⁺ Dynamics in β Cells	19	Lincoln Park
52	Patel, Bhumi	12	Phytochemicals and Rat Prostate Cancer Cells	19	Northside

Botany

53	Aguilar, Jennifer	7	Competition Between Plant Growth	10	Whitney
54	Arrocha, Yasser	7	Light Color and Plants	12	Carson
55	Delgado, Bibiana	7	Pumpkin: Hot Water or Cold?	4	Northwest
56	Hassan, Sarah	7	Effects of Primary Light Colors on Plants	2	Boone
57	Linares, Itzel Stover, Rebecca	7	Growing Roots	4	Chopin
58	Ahmed, Talha	8	In Which Chemical Does Wheat Grass Grow Best?	2	Boone
59	Perez, Abril	8	Effects of Roses	18	Bright
60	Vega, Benjamin	8	Effects of Water Temperature on Plant Growth	3	Sayre
61	Ali, Arzeena	9	Salt and Germination	52	Chicago Math & Science
62	Drozdz, Derek	9	Effect of Freezing on Cat Grass Seed Growth	21	W. Young
63	Lin, Melissa	9	That's The Way to Grow!	21	W. Young
64	Reyes, Kiara	9	The Longevity of Cut Flowers	25	World Language
65	Sikorski, Mark	9	The Effects of Acid Rain on Bean Plants	25	Williams
66	Bolton, Nicole	10	Effect of Gibberellic Acid on Palm Plants	24	Morgan Park
67	Fernandez, Daniela	10	Colored Light Changing Lima Bean Growth	19	Lincoln Park
68	Herrera, Alexandra	10	Does Elevated CO ₂ Affect Plant Growth?	23	Gage Park
69	Medina, Victor	10	Is Change Good?	21	Juarez
70	Tucker, Salena	10	Hydrogen Peroxide and Seed Germination	23	Hyde Park
71	Valle, Manuel	10	Radiation Effects	21	Jones
72	Villa, Giselle	10	How Does Salt Affect Plants?	23	Gage Park
73	Voytanovych, Nadiya	10	The Effects of Allelochemicals on Zinnia	19	Lane
74	Gong, Muyuan	11	Isolating Plant DNA Without Liquid Nitrogen	23	Tilden



Exhibits by Category

Exh	Student Name	Grade	Title	Area	School
75	Guerrero, Jessica	11	Do Plants Grow Better in Hydroponics or Soil?	23	Curie
76	Sanders, Andrea	11	Does Water Quality Affect Elodea Plants?	23	Gage Park
Chemistry					
77	Decker, Ted	7	The Effects of Acid Rain on Building Material	2	Bell
78	Diaz, Nickolas	7	Foamy Juices	17	Mireles
79	Jenkins, Stevon	7	To Burst or Not to Burst?	16	Morgan
80	Kavouras, Christian	7	Get Your OJ!	2	Coonley
81	Olmos, Rigoberto	7	Does Metal in Chemicals Affect Flame Color?	3	Lyon
82	Paukstys, Lukas	7	Batteries and Robot Performance	11	Byrne
83	Amayo, Ralph	8	Determine Amount of Zinc on Galvanized Steel	6	Alcott
84	Avery, Chloe	8	The Dissolution Rate of Ibuprofen Pills	7	Herbert
85	Bennett, Jamesha	8	Which Orange Juice Has the Most Vitamin C?	2	Jordan
86	Chavez, Romualdo	8	Which Soda Can Will Sink or Float?	10	Kanoon Magnet
87	Davies, Dekonti	8	Dye Hard to Live Green	23	Kenwood
88	Goodman, Maurice	8	The Metal Reaction	9	Sheridan
89	Griffin, Michael	8	What Solution Removes CD Scratches Best?	16	Clissold
90	Helton, Norton	8	Kitchen Chemistry: Iodine in Salt	15	Pershing West
91	Iturralde, Rebecca	8	How Heavy Is Hot?	9	A. Jackson
92	Jimenez, Andrea	8	Comparison of Aspirin Tablets	12	Seward
93	Kucharzak, Charles	8	Electroplating: Optimum Shape Effectiveness	10	Gunsaulus
94	Lyang, Charles	8	Lots of Vitamin C	21	W. Young
95	Paredes, Maria	8	The Secret Formula	12	Hamline
96	Phillips, Jalissa	8	Which Carrot Has the Most Carbon Dioxide Gas?	14	Harvard
97	Phillips, Lindsay	8	Permanent Problems	1	Norwood Park
98	Pirpiris, Deanna	8	Crystal Creations	1	Taft
99	Spencer, Akele	8	Does Temperature Affect Vitamin C Content?	9	Skinner
100	Taylor-Jackson, Ravin	8	Which Orange Juice Has the Most Vitamin C?	13	Beasley
101	Andersson, Evan	9	The Effects of Chlorine on Activated Carbon	19	Lane
102	Chung, Adrienne	9	Cake-Mania	21	W. Young
103	Collier, Tashaina	9	The Power of Biodiesel and Peanuts	24	Simeon
104	Decker, Matthew	9	Wood n't It Be Ice	21	W. Young
105	Diaz, Erika	9	Lifting Prints	25	Infinity
106	Dickerson, Diamond	9	Spice Me Up	24	Julian
107	Gename, Kevin	9	Enzyme Time	23	Kennedy
108	Hill, Latavia	9	Dissolution Time	23	Hyde Park
109	Hopps IV, Porter	9	A Burst of Refreshment	23	King
110	Miller, LaDonna	9	Sweet Sugar	23	King
111	Tran, Margaret	9	Flammability of Fabric Softener	19	Lane
112	Zagorski, Jimmy	9	Mentos and Diet Coke Eruption	19	Lake View
113	Arteaga, Martha	10	Rates of Reactions	23	Hubbard



Exhibits by Category

(Chemistry cont'd)

Exh	Student Name	Grade	Title	Area	School
114	Billups, Anniky	10	What's The Point of Boiling?	23	Dunbar
115	Erickson, Elin	10	Electrolysis	19	Von Steuben
116	Garcia, Jesus	10	Surface Tension	23	Richards
117	Martin, Nepresha	10	Do Oranges Have the Same Amount of Water?	23	Hirsch
118	Meeks, Shatrice	10	Molecule Motion	23	Richards
119	Vulic, Emir	10	The Effect of Acid on Limestone	19	Lincoln Park
120	Wilson, Janea	10	Aspirin Tummy Test	24	Brooks
121	Ahmed, Sana	11	Dissolution of Medicine with HCl	19	Lake View
122	Branch, Reginald	11	Flame Test	25	School of Leadership
123	Budzikowska, Marta	11	Effect of Oils' Temp. on Falling Ball's Speed	19	Von Steuben
124	Cotton, Dantrell	11	Converting Food Into Science	24	Chicago Ag.
125	Gibbs, LeAnder	11	Biodiesel Solid Acid Catalyst Pathway	23	Curie
126	Gonzalez, Elizabeth	11	How Many Times Does It Take to Neutralize?	24	Washington
127	Hernandez, Victoria	11	Stained Teeth	21	Juarez
128	Moore, Cierra	11	Density of Different Varieties of Apples	23	Hirsch
129	Phung, Eunice	11	Water Quality of the Chicago River	23	Curie
130	Robles, Ramon	11	CO ₂ and You	19	Mather
131	Zuniga, Erik	12	Band Gap	23	Curie

Computer Science

132	Clemmons, Maleke	7	Super Computer: Processor Speed	23	Lindblom
133	Carnowell, Michael	8	Java Variables: The Fastest Computations?	14	Lenart
134	Aird, Jonathan	10	Success of Genetic Programming vs. # of Inputs	21	Payton
135	Balay-Wilson, Leah	10	Fractal Complexity of Irradiated Tissues	19	Lincoln Park
136	Maliszewski, Austin	10	Mathematical Compression of High Entropy Data	21	Payton
137	Price, Stevan	10	Which Antivirus Works Best?	23	Hyde Park
138	Tines, Antonio	11	You Got Me Going in Circles!	25	Bronzeville

Earth Science

139	James, Anissa	7	Growing Crystals	23	Lindblom
140	Leonard, Jamar	7	Best Way to Predict the Weather	8	Kellman
141	Pauer, Alexander	7	Soils' Affect on Flooding	1	Canty
142	Smith, Christopher	8	Soil Type and Water Retention	18	Schmid
143	Maberry, Raven	9	Do Landforms Affect Tornado Intensity?	24	Harlan
144	Swartz, Kyle	10	Tornado Genesis	19	Von Steuben
145	Tsarev, Slavi	12	Permeability and Groundwater Movement	19	Amundsen

Electronics

146	Branch, Jaeda	7	Suntricity	24	Morgan Park
147	Esman, Pauline	7	The Sound of Music: Science Edition	1	Edison
148	Washington, Marcel	7	The Power of Copper	3	Lovett
149	Meza, Jesse	8	Solar Panel: Hoax or Reality?	10	Gary



Exhibits by Category

Exh	Student Name	Grade	Title	Area	School
150	Rainey, Brianna	8	Single Slide Projector	52	Longwood Charter
151	Santamaria, Margarita	8	Foil's Efficiency on a Solar Cell	11	Morrill
152	Smith, Karon	9	Which Smoke Detector Works Best?	23	King
153	Blaxton, David	11	Can You Hear Me Now?	23	Curie

Engineering Science

154	Castro, David	7	Steady Study	9	A. Jackson
155	Hehn, Dennis	8	Wind Power	1	Taft
156	Kneip, David	8	Which Beam Design Supports the Most Weight?	2	Chappell
157	McCabe, John	8	Parachuting To Victory	16	Cassell
158	Nelson, Matthew	8	Energy: Which Form Will Work for You?	16	Cassell
159	Olguin, Jacqueline	8	Supporters	12	Hamline
160	Banik, Mark	9	Which Liquids Produce the Most hho Gas?	24	Chicago Ag.
161	Gomez-Doyle, Sofia	9	What Bridge Design Sustains the Most Weight?	19	Lincoln Park
162	Izui, Jason	9	Blades of Glory	19	Von Steuben
163	Mack, Tatiana	9	How Much Weight Can Constructed Bridges Hold?	23	King
164	Kotlarek, Bart	10	Golf Club Technology Analysis	19	Taft
165	Sawyer, Jordan	10	Tension and Frequency in Guitar Strings	21	Payton
166	Nelson, Melissa	11	Energy? The Answer is Still Blowing in Wind!	24	Chicago Ag.
167	Robbins, Alexander	11	Which Support is Strongest?	19	Von Steuben

Environmental Science

168	Cannon, Shahzaade	7	Purity and Salinity	2	Rogers
169	Pacholski, Brian	7	Filtered Water: Clean or Contaminated?	11	Dore
170	Abarca, Ricardo	8	The Attack of the Pollutants	12	Shields
171	Asimow, Noah	8	Natural vs. Artificial Surfaces	6	Hawthorne
172	Cinaj, Christina	8	H ₂ O	3	Locke
173	Curtin, Ellen	8	Solar Cell Efficiency	10	Gunsaulus
174	Dzialek, Brigitte	8	Leave Your Metals Out of My Drink	11	Peck
175	Martin, Raquita	8	How Does Soil Affect the pH of Water?	17	Revere
176	Moreno, Nia	8	Water Around The World: Is It Safe?	24	Morgan Park
177	Price, Victoria	8	Purest Water North or South: The Final Phase	17	Tanner
178	Santiago, Stephanie	8	Wind Power	4	Casals
179	Taylor, Charles	8	How Safe Is Our Water Supply?	17	Powell
180	Terry, Johnathan	8	Natural Substances in Our Ecosystem	13	Beasley
181	Walker, Vernell	8	Testing the Waters	13	Beethoven
182	Wells, Trivon	8	Which Absorbs More Heat?	16	Green
183	Durr, Brandon	9	The Effect of Ceiling Shape on Heat Usage	23	King
184	Prichett, Gary	9	Effects of Cigarette Waste on Flora and Fauna	24	Brooks
185	Zermeno, Daniela	9	Can Greywater Be Used to Grow Wheatgrass?	19	Lane
186	Banda, Barbara	10	Is Ground-Level Ozone a Problem in Winter?	23	Curie



Exhibits by Category

(Environmental Science cont'd)

Exh	Student Name	Grade	Title	Area	School
187	Bryant, Antwon	10	Does Cigarette Smoke Affect Plant Growth?	23	Gage Park
188	Coronel, Juan	10	Worms and Plants	23	Curie
189	Halon, Piotr	10	Breathing the Air of Life	19	Lane
190	Iqbal, Sana	10	Effects of N, P, and K Fertilizer on Soybeans	19	Senn
191	Perez, Karen	10	Using Daphnia & Hydra to Monitor H ₂ O Toxicity	19	Lane
192	Sanchez, Alexandra	10	Wind Power	23	Hubbard
193	Sulaiman, Faiza	10	Investigating Various Water Pollutants	19	Lane
194	Zekthi, Enxhi	10	The Effect of Chlorine on Soybean Germination	19	Taft
195	Aguilar, Nancy	11	Fuel of Tomorrow	19	Von Steuben
196	Estrada, Miguel	11	Does Garlic Discourage Aphids?	26	Phoenix M. A.
197	Schultz, Michael	11	Temperature and Oil Spills	21	Payton
198	Ramirez, Karen	12	Contaminated Water?	24	Washington

Health Science

Baxter International Inc.

199	Bullocks, Kiara	7	Fingerprint Patterns	8	Kellman
200	Lee, Robbie	7	Neutralizing Antacids	18	West Pullman
201	McDermott, Katherine	8	Cracking A Smile	1	Farnsworth
202	Moore, Racquel	8	Fresher for Longer	14	Yale
203	Rodriguez, John	8	Which Lunchmeat Contains the Most Fat?	11	Pasteur
204	Alvarez, Kenny	9	Are All Potato Chips Equally Greasy?	26	Phoenix M. A.
205	Jackson, Jhanae	9	Liver Damage	25	School of Leadership
206	Kaminski-Morris, Audrey	9	The Lung Capacity of a Swimmer vs. Non-Swimmer	19	Lake View
207	Knox, Erica	9	Variables Affecting Peripheral Vision	21	W. Young
208	Askia, Fatimah	10	Studying Insulin Secreting Cells in Zebrafish	25	Williams
209	Lara, Yesica	10	Which Orange Juice Contains More Vitamin C?	23	Curie
210	Manghi, Maria	10	Effect of Cigarette Smoke on Wound Healing	21	Payton
211	Mei, Sally	10	How Are Fingerprint Patterns Inherited?	23	Curie
212	Womack, Deonte	10	Heart Rate Recovery Times	23	Hyde Park
213	Cadiz, Michael	11	Collagen in the Supraspinatus Tendon	21	Payton
214	Perez, Esteban	11	Do Liquid Supplements Affect Running?	21	Juarez
215	Xu, Mengyi	11	MicroRNAs and Their Expression in Leukemia	19	Lincoln Park
216	Buenaventura, Maria Andrea	12	Diet or Die-Yet?	19	Amundsen
217	Cencieros, Gabriel	12	Dissolution Time of Pain Relievers	24	Carver Military
218	Goodwin, Lauren	12	Soy Protein & Exercise Reduce Lesions in Mice	24	Chicago Ag.
219	Ivery, Alecia	12	Lifestyles and Asthma	24	Bogan
220	Nolan, Margaret	12	Shut Up and Drive	19	Taft

Materials Science

221	Flores, Lucero	7	How Permanent Are Permanent Markers?	11	Twain
222	Haygood, Alexa	7	Do Color Candles Burn Faster?	18	Burnham
223	Rivera, Anthony Smith, Jonathan	7	More Bounce	3	Spencer



Exhibits by Category

Exh	Student Name	Grade	Title	Area	School
224	Barraza, Alexandra	8	Does Material Color Affect Heat Absorption?	17	Sullivan Specialty
225	Ramirez, Brian	8	Color Effect on Temperature	10	Burroughs
226	Virrueta, Stephany	8	Heat Conductors	12	Shields
227	Lona, Bernadette	10	Fabrics and Fire	23	Kennedy
228	Shine, Delmario	10	Flammability of Infant Sleepwear	23	Gage Park
229	Diaz, Maria	11	Schurz vs. Lane	19	Schurz
230	Edwards, Brandon	11	Mega-Absorbers: A Comparative Study	25	World Language
231	Evans, Christopher	11	Which Diaper Absorbs the Best?	23	Tilden
232	Guzman, Tania	11	Does a Material's Nature Affect Resistance?	23	Richards
233	Smith, Rhonda	11	I Don't Know My Own Strength!	25	Bronzeville

Mathematics

234	Sanchez, Jesus	10	Play Ball!	19	Lane
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Microbiology

235	Turner, Tyehimba	7	An Aerobic Exercise: Yeast Metabolism Part II	23	Lindblom
236	Gaston, Jonathan	8	Wash Your Mouth	12	Claremont
237	Ortiz, Omar	8	Does One Bad Apple Spoil the Bunch?	11	Durkin Park
238	Rosas, Martin	8	The Effect of Chemicals on Apple Blue Mold	2	Inter-American
239	Steigerwald, Kaitlyn	8	Bye, Bye <i>E.coli</i>	1	Beaubien
240	Tate, Cecilia	8	The Effect of Antibacterial Soaps	18	Schmid
241	Tong, David	8	Antibacterial Effects of Chemicals	6	Ogden
242	Zhuo, Lucy	8	Organic Sanitizers vs. Chemical Sanitizers	21	W. Young
243	Deiss-Yehiely, Elad	9	Antimicrobial Activity of Allium Plants	19	Lincoln Park
244	Moy, Belinda	9	The Natural Pharmacy	21	W. Young
245	Buksa, Joanna	10	Antibiotic Resistance on <i>Escherichia coli</i>	19	Lane
246	Garcia, Anthony	10	DNA Extraction	25	Infinity
247	Kim, Yoonjeong	10	The Antimicrobial Effect of Tea on <i>E.coli</i>	19	Lincoln Park
248	Rodriguez, Agustin	10	The Science of Molding Bread	23	Richards
249	Cernek, Nicholas	11	The Role of Integrins in Prostate Cancer	19	Lincoln Park
250	Khuu, Julie	12	"Dirty Hands? Clean Them Up With..."	23	King
251	Kwateng, William	12	Effect of UVC on the Rate of Cell Respiration	19	Senn
252	Robateau, Angela	12	Attack of the Germs	23	King
253	Salehitazangi, Marzieh	12	Stem Cell Presence in Prostate Epithelium	19	Mather
254	Shropshire, Brittany	12	Zap That Zit!	23	King
255	Tran, Thuy	12	EphA2 Gene Mutations in Various Lung Cancers	19	Northside

Physics

256	Collins, Rachel	7	How Much Height to Loop the Loop?	13	Beasley
257	Diaz, Fabian	7	Now You See Them, Now You Don't	6	De Diego
258	Johnson, Ronisha	7	Strength of Magnets and Temperature	7	Brown
259	Khan, Aameena	7	Hazy Daze	1	Edison



Exhibits by Category

(Physics cont'd)

Exh	Student Name	Grade	Title	Area	School
260	McRoy, Lauren	7	Which Kite Shape Flies the Best?	11	Byrne
261	Adejinmi, David Adejinmi, Samuel	8 7	Surface Tension	8	Henson
262	Amezcuca, Christopher	8	Making It Ship-Shape	10	McKinley Park
263	Carbajal, Fabian	8	Science of Spin: A Baseball Pendulum	10	De La Cruz
264	Cephas, Taylore	8	COR= ??? Bounce, Bounce, Bounce	17	Turner-Drew
265	Chrobak-Prince, Benjamin	8	Let the Sun Shine In	14	Lenart
266	Dickson, Alundra	8	Colors Absorbing Heat	17	Gillespie
267	Douglas, Tiajuanna	8	Holding the Heat	8	Lathrop
268	Flanagan, Anton	8	Faraday's Law: Electromagnetic Fields	52	Longwood Charter
269	Flax, Daniela	8	Absorbed Peltier Heat Dependence on Current	6	Lincoln
270	Guy, Malik	8	We Cracked Up	15	Canter
271	He, Terence	8	Does Temperature Affect Magnetism?	9	Haines
272	Lopez, Victor	8	Chilly Magnets	11	Sawyer
273	Agunloye, Oluwamide	9	"Lights, Color, Action!!!"	19	Lane
274	Blackwood, Hannah	9	Magnet Muscle: Cold is Bold, Hot is Not	21	W. Young
275	Grose, Victoria	9	Thermocouple: It's Electric	21	W. Young
276	Ledsky, Clara	9	Shining on Through Thick and Thin	21	W. Young
277	Marquez, Denisse	9	The Effect of Tires' Air Pressure on Friction	24	Chicago Ag.
278	Allen, Corey	10	How Does Heat Affect a Magnet's Strength?	23	Hyde Park
279	Causevic, Suad	10	Keep It Cool	19	Lane
280	Daniels, Chohnice	10	How Far Can Sparks Jump?	23	Hyde Park
281	Donaldson, Marie	10	Frequency, Tension and Length Relationships	21	Payton
282	Flores, Edith	10	Calorimetry and Light Bulbs	23	Hubbard
283	Garcia, Carlos	10	Batter Up!	24	Morgan Park
284	Hira, Sana	10	The Mpemba Effect	19	Von Steuben
285	Kuklinski, Nicole	10	Effects of Electromagnetism on Plant Growth	19	Lane
286	Mercurio, Maggie	10	Could Wood Be Understood?	21	W. Young
287	Roberts, Omari	10	Telescopes: Real vs. Virtual Images	25	Williams
288	Araujo, Fernando	11	Magnetic Gun	21	Juarez
289	Avila, Abigail	11	Fine Tuning: Amplifying Sound	26	Chicago M. A.
290	Brown, Benita	11	Bridges Under Stress & Strain	23	Lindblom
291	Holt, Sharmaine	11	Buoyant Force and Density = Viscosity?	24	Bogan
292	Guerrero, Alfredo	12	Which Plane Flies the Farthest?	23	Tilden
293	Mondragon, Diana	12	Fire Rainbow	24	Bogan
294	Thomas, Meghan	12	Trebuchet Mechanics	24	Morgan Park
295	Valentin, Amaury	12	Effect of Puncture Size on Rocket Car Speed	19	North Grand
296	Watkins, Danielle	12	Surface Tension of Various Liquids	19	Schurz

EXHIBIT JUDGING
FRIDAY



Exhibits by Category

Exh	Student Name	Grade	Title	Area	School
Zoology					
297	Bell, April Villegas, Lorenzo	8	A Mouse of a Different Color II	6	Lincoln
298	Bennett, Erin	9	The Effect of Pesticides on Redworms	19	Lincoln Park
299	Khan, Afra	10	Effect of Garlic on Planarian Regeneration	19	Lane
300	Pirpiris, Juliette	11	Daphnia: Water-Cleanliness Police	19	Taft
301	Castro, Brian	12	Voluntary Feed Intake Daily Gain of Horses	24	Chicago Ag.
302	Gilmore, Kirsti	12	Expression of HMOX-1 on METH Induced Rats	24	Morgan Park

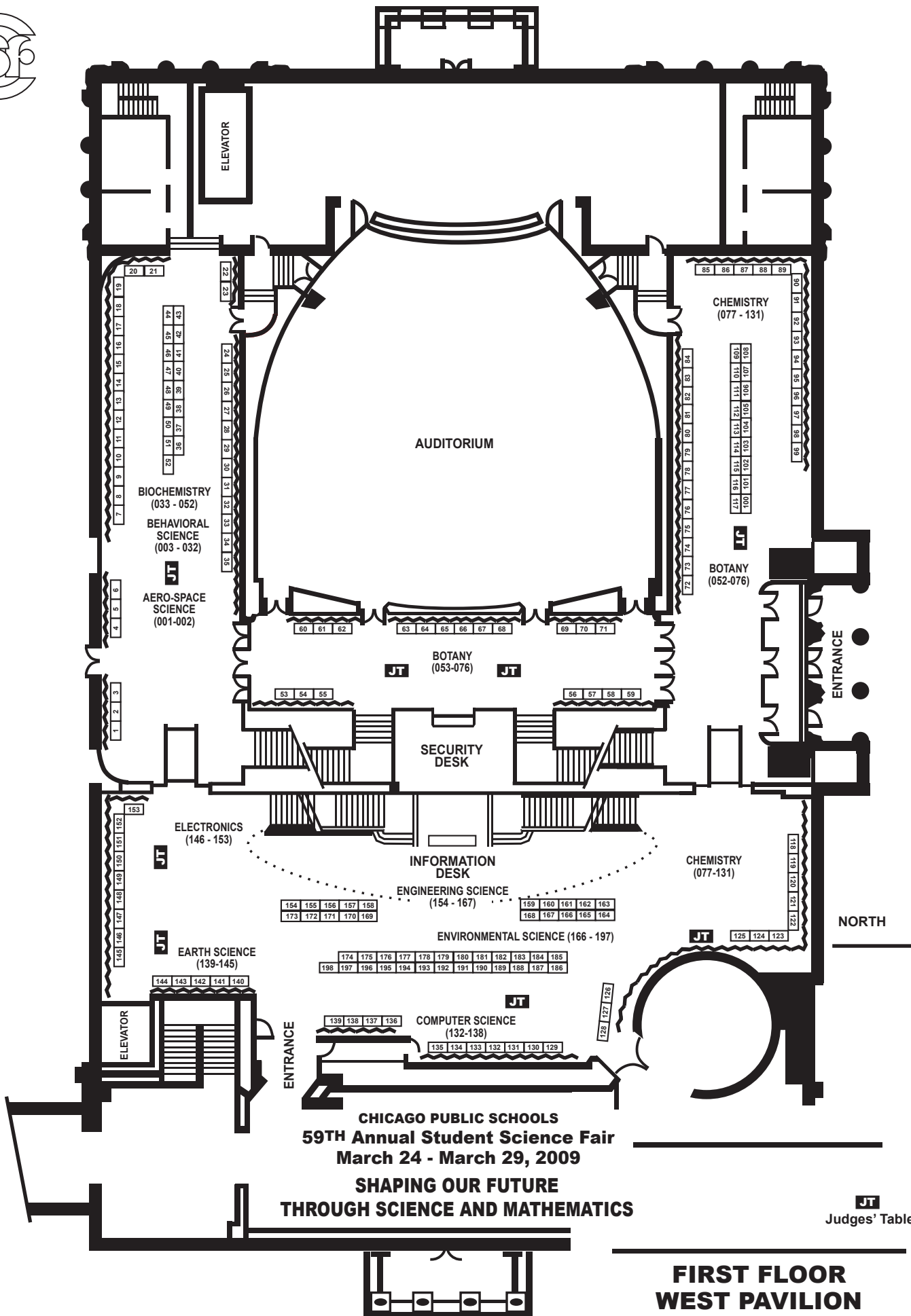
Exhibit Summary

Category	Elementary			Secondary			Total			Team Projects
	Male	Female	Total	Male	Female	Total	Male	Female	Total	
Aero Space Science	1	0	1	0	1	1	1	1	2	0
Behavioral Science	2	14	16	3	12	15	5	26	31	1
Biochemistry	2	6	8	5	7	12	7	13	20	0
Botany	3	6	9	5	11	16	8	17	25	1
Chemistry	14	10	24	12	19	31	26	29	55	0
Computer Science	2	0	2	4	1	5	6	1	7	0
Earth Science	3	1	4	2	1	3	5	2	7	0
Electronics	2	4	6	2	0	2	4	4	8	0
Engineering Science	5	1	6	5	3	8	10	4	14	0
Environmental Science	6	9	15	7	9	16	13	18	31	0
Health Science	1	4	5	5	12	17	6	16	22	0
Materials Science	3	4	7	3	4	7	6	8	14	1
Mathematics	0	0	0	1	0	1	1	0	1	0
Microbiology	5	3	8	5	8	13	10	11	21	0
Physics	10	8	18	8	16	24	18	24	42	1
Zoology	1	1	2	1	4	5	2	5	7	1
TOTAL ▶	60	71	131	68	108	176	128	179	307	5

EXHIBIT JUDGING
FRIDAY



EXHIBIT JUDGING
FRIDAY



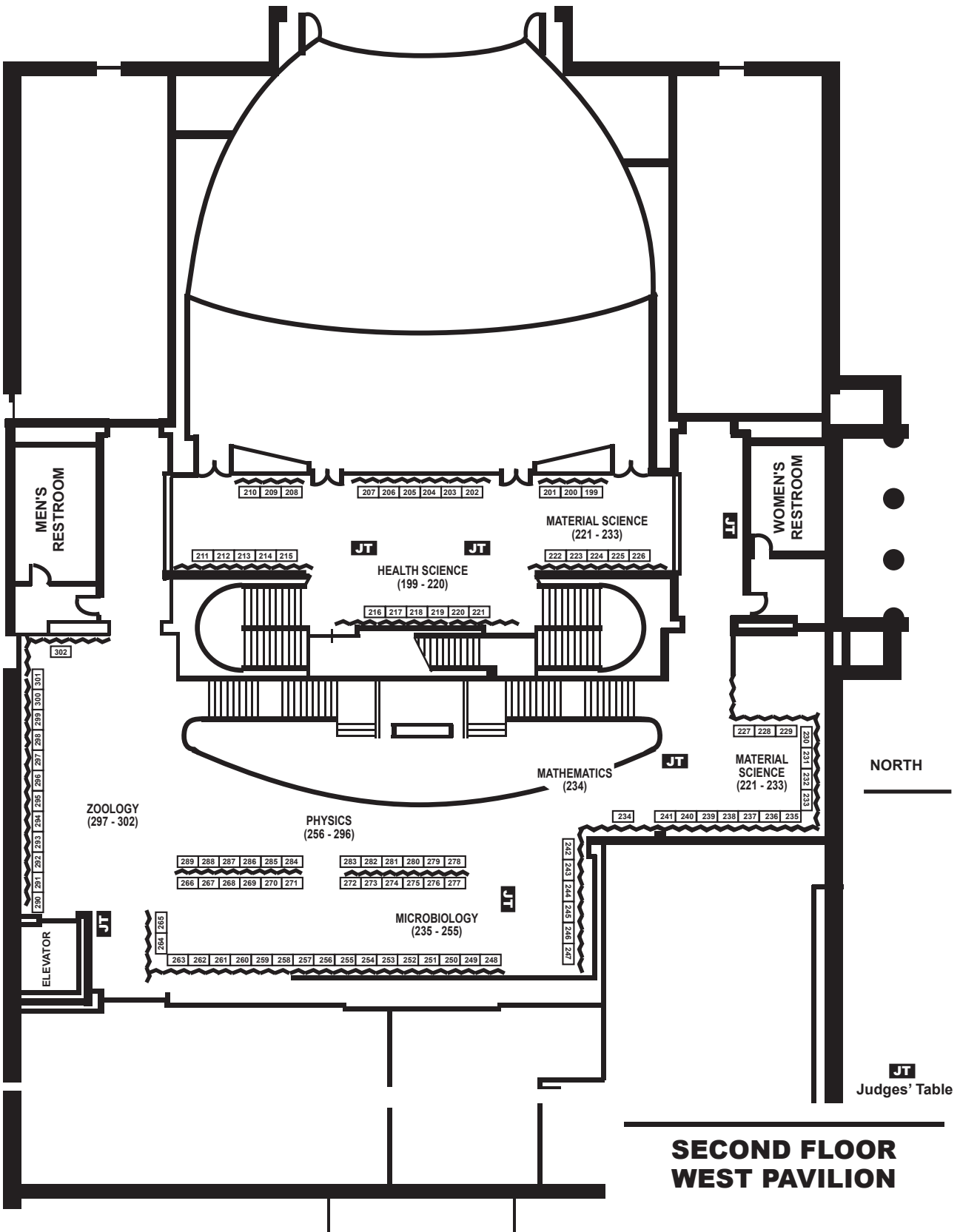
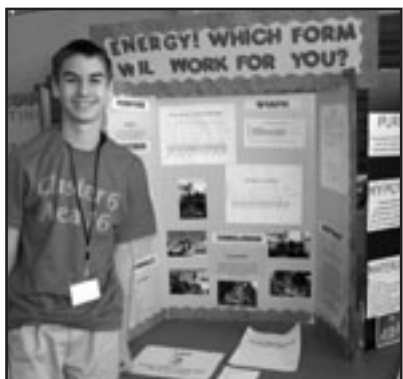
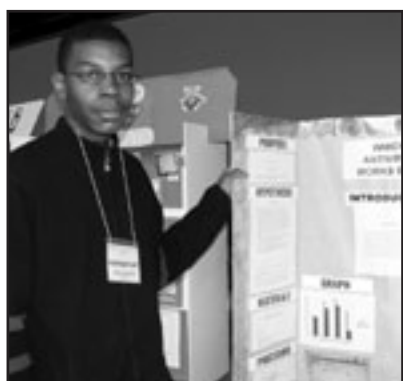
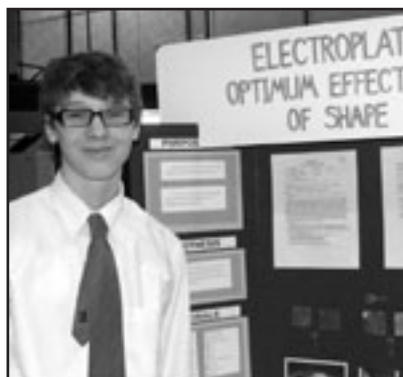


EXHIBIT JUDGING
FRIDAY



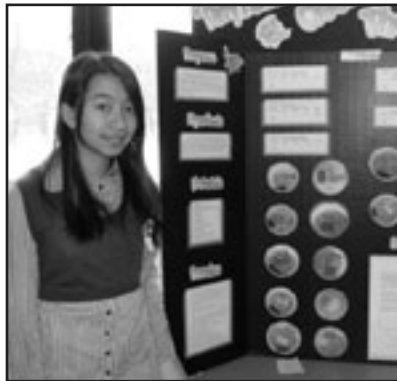
Student Exhibitors



PUBLIC VIEWING & 6TH GRADE
LUNCH SATURDAY



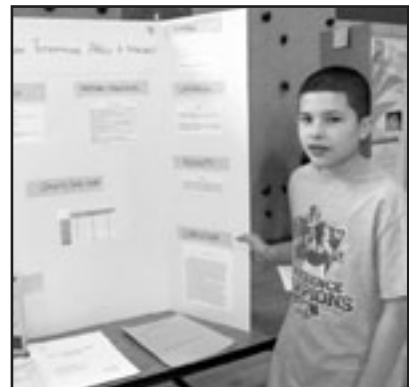
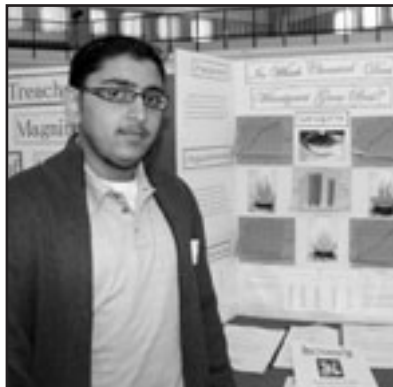
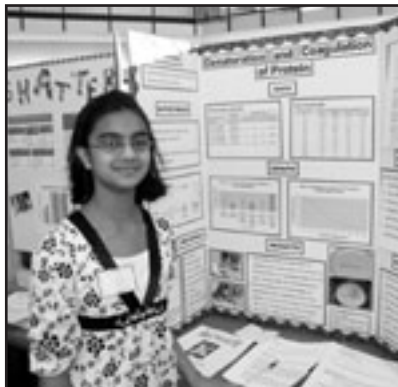
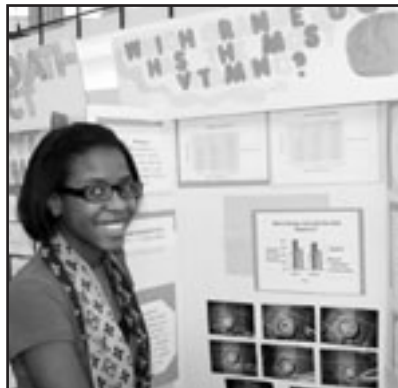
Student Exhibitors



PUBLIC VIEWING & 6TH GRADE
LUNCH SATURDAY



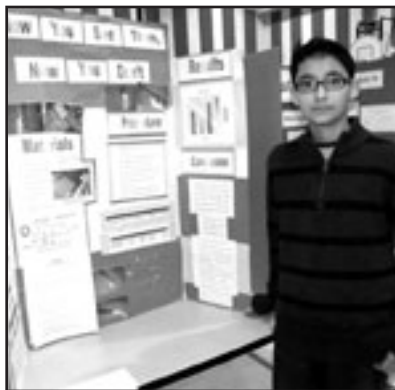
Student Exhibitors



PUBLIC VIEWING & 6TH GRADE
LUNCH SATURDAY



Student Exhibitors



PUBLIC VIEWING & 6TH GRADE
LUNCH SATURDAY



Sixth-Grade Area Winners Recognition Luncheon

Saturday, March 28, 2009

11:45 A.M. – Colombian Room

Welcome

Edward Scanlon
*Chairperson,
CPS Student Science Fair, Inc.*

Comments

Linda A. Carter
*Chairperson Elect,
CPS Student Science Fair, Inc.*

Jeanette Bartley
Elementary Science Manager

Dr. John Loehr, Ph.D.
High School Science Manager

Presentation of Awards

Edward Scanlon
Linda A. Carter
Pamela D. Sherley
*Executive Director,
CPS Student Science Fair, Inc.*

Group Photo

Allan Reisberg
*Chairperson, Digital Imaging
CPS Student Science Fair, Inc.*

Chemistry Show

Bangs, Flashes and Fire
(Auditorium, 2:00 p.m.)



PUBLIC VIEWING & 6TH GRADE
LUNCH SATURDAY

Sixth-Grade Area Winners

List of 2008 Sixth-Grade Area Winners

Area	Student	School
1	Luis Ramirez Ian Steigerwald	Thorp Beaubien
2	Anja Schulz Zoe Schanks	Blaine Decatur
3	Sierra Wilson	May
4	Alberto Collazo Karina Gonzalez	Lafayette Piccolo
6	Madeleine Moderhack Peter Williamson	Franklin Lincoln
7	Mohoganee Owens Asia Burtley	Sumner Herbert
8	Keante Pendleton Ivy Maina	Lawndale Irving
9	Angeles Gonzalez Nina Chehade	Pilsen Galileo
10	Kevin Li Carmina Reyes	Gunsaulus Saucedo
11	Maria Jaronczyk Crystal Ibarra	Grimes Hale
12	Jesus Diaz Jennifer Campos	Evergreen Hamline
13	Gloria Vera Elizabeth Woods	Graham Mollison
14	Matthew Patrick	Lenart
15	Nija Bradford Esme Kline	Murray Murray
16	Robert Tichy Alaya Johnson	Clissold Jackson
17	George Hall Mekah Jordon	Earhart Pirie
18	Tyrone Ferguson Taylor Pilarczyk	Metcalf Washington





Awards Convocation

Sunday, March 29, 2009

1:00 P.M. – Auditorium

Pledge of Allegiance

National Anthem

Greetings **Edward Scanlon**
Chairperson, CPS Student Science Fair, Inc

Welcome **Bryan Wunar**
Director of Education
Museum of Science and Industry

Remarks **William E. Meyer**
President, Board of Directors, CPS Student Science Fair, Inc.

David Gilligan
Chief Officer, CPS Office of High Schools and High School Programs

Chandra James
Director, CPS Office of Mathematics and Science

Awards Presentation **Linda A. Carter**
Chairperson, Special Awards and Tours Committee
• *Special Awards*
• *Military Awards*
• *Special Tour Awards*

Winners Recognized by **David Gilligan**
Bryan Wunar
William E. Meyer
Chandra James
Edward Scanlon

Recognition of BP America, Inc.
Symposium Winners **Hortense Brice**
Chairperson, Symposium Committee

Illinois Junior Academy
of Science (IJAS) Awards **Anne Marie Sherry**
Chairperson, IJAS Committee

International Science and
Engineering Fair (ISEF) Awards **Edward Scanlon**
Chairperson, CPS Student Science Fair, Inc

Closing Remarks **Edward Scanlon**
Chairperson, CPS Student Science Fair, Inc



Special Awards

A variety of awards are provided by individuals, industry, educational organizations, and professional societies. The contributors listed below provide cash awards, bonds, medals, scientific equipment, tour and convention trips, certificates of merit, and subscriptions to professional journals, as indicated. The judges who represented these contributors are also listed below.

At the Awards Convocation on Sunday, March 29, 2009, students whose projects are selected by Special Awards Judges will be the direct recipients of these awards.

If you are interested in becoming a Special Awards contributor, please contact Linda Carter, Medill TPDC, 1326 W. 14th Place, Chicago, IL 60608; (773) 553-6248.

On behalf of all the young scientists, a special THANK YOU is extended to the contributors of Special Awards.

Special recognition to the following five contributors for providing an award to every exhibitor!

Delta Education

Science Fair totes to all exhibitors and Science Fair committee members

- Rick Brost

Grace Education-Heineman/Newbridge-Sundance

Souvenir Science Fair caps to all exhibitors

- Jim Burnette
- Bert Crossland

MARS Snackfood US

A bag of candy to all exhibitors

- Nick Kessler
- Jennifer Yezak

University of Illinois at Chicago - Department of Engineering

400 puzzle pens to exhibitors

World Book Encyclopedia Inc.

A copy of World Book Science Year 2009 to all exhibitors

- Mark Willy
- Victor Mazzeo

Abdoulmawla Almiladi Memorial Award

One \$50 cash award for outstanding effort

- Falak Almiladi

Achievement Award

Two \$50.00 cash awards to a first time high school and elementary City Science Fair exhibitor

- Rita Nelson
- RyAnn Nelson Jaiyesimi

Adler Planetarium

Five family passes to the Adler Planetarium

- Michael Mott

Aimee W. Strawn Excellence in Math Award

One \$50 cash award to an exemplary math related middle school exhibit

- Mary Jo Tavormina

Alpha Kappa Alpha Sorority

One \$50 savings bond (at maturity) for a 7th grade female exhibitor

- Linda W. Carter

Amanda Brown & Ken Hunt Award

Four \$100 cash awards to two Biochemistry exhibitors and two Biochemistry Symposium presenters

- Ken Hunt

Amazing Edibles

One \$100 cash award to a female exhibitor demonstrating outstanding use of science process skills

- Andrea Herrera

American Electroplaters and Surface Finishers

One \$1000, one \$500, and one \$200 savings bond (at maturity) presented at the American Electroplaters and Surface Finishers dinner meeting

- Andrew Gruda
- Robert Alley
- Brian Kane
- Louise Corbeil
- Gerry Stutz
- Dennis Chiovarie

American Meteorological Society

Two certificates to Meteorology exhibitors

American Nuclear Society-Chicago Section

One \$100 cash award, one \$50 cash award, and one \$25 cash award with recognition books with certificates for each school to exhibitors promoting peaceful uses of nuclear energy.

- Roger W. Tilbrook

American Psychological Association

One certificate to an outstanding psychology exhibitor in Behavioral Science

American Science & Surplus

One \$75 American Science and Surplus gift-certificate for the most original and creative exhibit.

- Joseph Town
- Luke LaVecchia

American Society for Clinical Laboratory Science-Illinois

One \$50 cash award to an exhibitor in health care science

Anthony's Futuristic Science Award

Two \$50 savings bonds (at maturity) to the most inventive science projects

- Anthony Bartley
- Jeanette Bartley



Special Awards

Anti-Cruelty Society

One \$50 cash award to project that best demonstrates exemplary consideration for animals.

- *Tatiana Garrett*

Area 14 Science Recognition Award

A \$50 savings bond (at maturity) to Area 14 exhibitor

- *Jennifer McDonnell*
- *Donna Thigpen*
- *Chris Vega*
- *Peggy Smith*
- *Adrian Willis*
- *Laura Buzelli*

Area 9 Instruction Office

One \$50.00 cash award to an Area 9 exhibitor

- *Falak Almiladi*

Area 16 Academic Achievement Award

Four \$50.00 cash awards to outstanding exhibitors

- *Monica Morrow*

ASM Education Foundation

A certificate and medallion to an outstanding exhibitor in Materials Science

Association for Women Geoscientists

One certificate to an exemplary female exhibitor in Earth or Planetary Science

Association of Women in Science (Chicago)

Four \$50 cash awards to promising young female exhibitors

- *Joy Ramos*
- *Eileen Sheu*
- *Marcella Schmidt*
- *Nicole Grynawski*
- *Maryam Hanif*
- *Bethany Brown*
- *Lisette Ruberte*
- *Susan Meschel*
- *Melanie Patterson*

Baker Family Merit Award

One \$50 savings bond (at maturity) to an outstanding exhibitor

- *Gynette Baker*
- *Will Baker, Jr.*
- *Gianna Baker*
- *Myles Baker*

Bill and Nading Thompson Award

One \$100 cash award to an 8th grade Area 13 exhibitor

- *Kitty Thompson*

BP Products North America, Inc.

Five \$200 cash awards to exemplary students

- *David Fashimpaur*
- *Gary Kizior*
- *Heather Mikkelsen*

BP Symposium Award

One first place cash award of \$250, one second place cash award of \$125, one third place cash award of \$75, and twenty-two participation cash awards of \$25 to Symposium presenters

BP/IJAS Essay Finalists

Elementary Division - One \$250, one \$125, and one \$75 cash award to elementary writers; High School Division - one \$250, one \$125, one \$75, and one \$50 cash award to high school writers

Camacho Math and Science Award

Five \$25 Target gift cards to minority female middle grades exhibitors

- *Lena Camacho*
- *Alex Camacho*
- *Marco Aguillon*
- *Rosalinda Ramirez*
- *Crystal Valladares*

Carolina Biological Supply Company

Six \$25 cash awards to elementary exhibitors

- *Darin Christianson*

CETMC (Chicago Elementary Teachers of Math Club)

Three \$100 cash awards to outstanding exhibitors

- *Carol Miller*
- *Jim Oehler*

Charles Braxton Brown Jr. Award of Excellence

Two \$50 cash awards to minority students exhibiting excellent use of technology.

- *Janice L Brown*
- *Vincent C. Brown*

Charles Braxton Brown Jr. Award of Ingenuity

Two \$50 cash awards to minority students exhibiting ingenuity in experimentation.

- *Janice L Brown*
- *Vincent C. Brown*

Cheryl Deese Science Award

Three \$50 cash awards to exemplary exhibitors

- *Cheryl Deese*

Chicago Intellectual Property Alliance (CIPA)

Three "Most Inventive" awards: First place - assistance with filing a patent application, a \$500 cash award, and a plaque; Second place - a \$300 cash award and a plaque; Third place - a \$200 cash award and a plaque

- *Mike Harlin, Esq.*
- *Chicago Area CIPA Members*
- *Gina Bicknell*
- *Steve Parmelee*
- *Sarah Kofflin*

Chicago Principals and Administrators Association

Six \$200 savings bonds (at maturity) to high school exhibitors and six \$100 savings bonds (at maturity) to elementary exhibitors in Behavioral Science, Biochemistry, Chemistry, Environmental Science, Mathematics, or Microbiology

- *Clarice Berry*
- *Walter Pilditch*

Chicago Zoological Society - Brookfield Zoo

One, one year family membership to an exhibitor focusing on conservation issues

- *JoElle Mogerman*

Christine M. Krupa Award

One \$250 cash award to an outstanding Mathematics exhibitor

- *Christine Krupa*



Special Awards

Citywide Math/Science Specialist Award

One \$100, one \$75 and six \$50 cash awards to outstanding middle school exhibitors

- Hallie Askulich
- Katherine Campbell
- Kathryn Cihak
- Andrew Friesema
- Fenesha Hubbard
- Suzanne Mazenis-Luzzi
- William Pass
- Leslie Swain-Store
- Erin Washington
- Veronica Borjas
- Tashena Chumrley
- Thomas Ellew
- Danusia Gerlach
- Sarah Kostelac
- Ketesha Melendez
- Kathryn Rupe
- Kareen Tunstall
- Leon Williams

David A. Page Exemplary Math Award

One \$50 cash award to an exemplary exhibitor with a math related project

- Mary Jo Tavormina

Delta Sigma Theta Sorority Inc.

Four \$100 savings bonds (at maturity) to outstanding exhibitors

- Judy Walter
- Dorothy Wilson-Davis
- Willie Gray

Discovery Channel Young Scientist Challenge

Twelve lapel pins and invitations to participate in the Discovery Channel Young Scientist Challenge to elementary exhibitors

Dr. Janice M. Buckley Perseverance Award

Two \$25 cash awards to 7th grade exhibitors who overcame obstacles to compete

- Linda Carter

Dusty's, Kenny's Ribs & Harambee House Award

Two \$50 cash awards to articulate exhibitors

- Kenneth Lewis, Sr.
- Deborah Lewis

E. Thaddeus Nix Memorial Science Award

Two \$100 savings bonds (at maturity) to outstanding exhibitors

- Judy Walter
- DeLores Nix
- Dorothy Wilson-Davis

Elementary Mathematics Facilitator Award

Three \$50 cash awards to an elementary project that best demonstrates the use of data representation and analysis

- Karen Holly
- Barbara Crum
- Jesch Reyes
- Colin Murphy
- Anne Breen
- Alison Whittington
- Soundarya Radhakrishnan
- Julio Alvarez
- Edie Clark
- Mila Kell
- Faylesha Porter
- Mary Jo Tavormina
- Katrena Washington

Environmental Sustainability Award

Two \$50 cash awards to exhibitors whose exhibits are focused on sustainable development

- Angela Dumas

Ezell Smith Award

Two \$50 cash awards for a "Food" project in Health Science

- Michael Smith
- Edna Smith

FBC Memorial Foundation for Assisted Living Award

Two \$50 savings bonds (at maturity) to exhibitors working on wellness

- Velma Chiles
- Mildred Heyward
- Steve Fobs
- Jesse M. Brown
- Shirley McAlpin
- Lola Fobs
- Tishika Townsend

Frey Scientific

Ten \$100 Frey gift certificates for items from the on-line catalog to outstanding middle school exhibitors and recognition to their Teacher Sponsor

- Vince Zaccardi

Gerald Rudnick Technology Award

One \$50 cash award to an exhibitor that best demonstrates the most innovative use of technology

- Gerald Rudnick

Gordon Family Chiropractic

Two \$100 Savings Bond (at maturity) to an excellent Health Science Exhibitor

- Ayo H. Gordon
- Judy Walter
- Grace Rawell

Greer Family Award

One Apple iPod to an outstanding exhibitor in Computer Science, Mathematics, or Physics

- Christian Greer

Herbert Hoover Young Engineer Award

One certificate and medallion to an exhibitor showing a grasp of engineering fundamentals

Hollander Storage and Moving

One \$100 cash award to an outstanding Physics exhibitor

- Joseph & Shirlee Hollander

IJAS

Accommodations for 75 students to attend the IJAS state exposition

Illinois Speech-Language-Hearing Association

Two \$100 cash awards to projects related to communication disorders and sciences

- Denise Prohaska
- Mary Leson

International Union of Operating Engineers

Twenty \$100 cash awards to outstanding exhibitors

- William Iacullo
- Robert Hellberg
- Jose Ramos

ISEF

Trip for four delegates to International Science and Engineering Fair and recognition to two alternates



Special Awards

Jahn Phillips Exemplary Data Analysis Award

One \$50 cash award and two \$25 cash awards with certificates to exhibitors with exemplary use of data analysis in their projects and two certificates to exhibitors promising use of data analysis in their projects

- *Jahn Phillips*

Janel James Sports Award

Two \$50 savings bonds (at maturity) to exhibitors with outstanding sports related exhibits

- *Chandra James*

John G. Shedd Aquarium

Two Behind-the-Scenes Tour packages, three Family "All Access" passes, and one Trainer for a Day session to an outstanding exhibitor in Biology, Zoology, or Environmental Science

- *Christian Greer*
- *Amy Christiansen*
- *Joy Kubarek-Sandor*

Kathryn Peecher Memorial Award

Three \$25.00 cash award to deserving elementary exhibitors

- *Vickie Jackson*
- *Linda Carter*
- *Marie Clouston*

Keeayla S. Jones Mathematics Excellence Award

Two \$125 cash awards to outstanding exhibitors in the category of Mathematics

- *Lanada Jones-Avinger*
- *Keeayla Jones*

Kendall Hunt Publishing Company

A Book to exhibitor who utilizes the most household materials

- *LaJanneice A. Sylvester*

Kimberly Simon Area 12 Award

Two \$50 savings bonds (at maturity) to exemplary Area 12 exhibitors

- *Kimberly Simon*

Lakeside Community Center Barbara J. Green Memorial

Two \$100 savings bonds (at maturity) to outstanding exhibitors

- *Judy Walter*
- *Willie Gray*

Lincoln Park Zoo

One \$50 cash award to an exhibitor whose project demonstrates a creative approach to scientific research

- *Sue Margulis*
- *Steven Solomon*

L'Oreal USA Sponsor

One \$100 cash award to an outstanding exhibitor in the area of chemistry

- *Nikisha Hunter*

Luba Johnson Science Award

Two \$50 cash awards to outstanding exhibitors

- *Luba Johnson*

Lucretia Hills Creativity Award

Two \$50 cash awards to exhibitors who creatively display findings

- *Ruby Everage*

Luis Alvarez Capilla Award

Two \$50 cash awards to outstanding exhibitors in the area of agriculture

- *Elizabeth Alvarez*

Marie Curie Sklodowska Award

Four \$50 savings bonds (at maturity) to outstanding projects in physics and chemistry

- *Stephanie Dubielak*
- *Barbara Dubielak-Wood*

MARS Snackfood US

Eight \$100 savings bonds (at maturity) to Chemistry exhibitors involving food or nutrition

- *Nick Kessler*
- *Jennifer Yezak*

Mary J. McKinney Award

One \$50 cash award to an outstanding female middle school exhibitor

- *Gina Grant*

Metropolitan Board of the Chicago Urban League

One \$50 cash award to an elementary exhibitor and one \$100 cash award to a high school male high achieving exhibitor

- *Dana Kyles*
- *William Alston*

Metropolitan Cluster

Four \$100 savings bonds (at maturity) to exemplary African American Female exhibitors

- | | |
|--------------------------|-------------------------------|
| • <i>Betty Robertson</i> | • <i>Judy Walter</i> |
| • <i>Willie Gray</i> | • <i>Dorothy Wilson-Davis</i> |
| • <i>Mary Goosby</i> | • <i>Sandra Givens</i> |
| • <i>Doreen Barrett</i> | • <i>Louisea Storey</i> |
| • <i>Delia Gray</i> | • <i>Jacqueline Craig</i> |
| • <i>Yamiton Brown</i> | • <i>Aretha Collins</i> |

Metropolitan Water Reclamation District

25 invitations to a boat tour of the Chicago River and Lake Michigan with lunch on board

- *Mary Carroll*
- *George Richardson*

Mu Alpha Theta

One certificate to a high school exhibitor creatively using modern mathematics

Murff Mathematical Merit Award

Two \$50 cash awards to outstanding exhibitors

- *Ricky Murff*
- *Vivian Murff*



Special Awards

Museum of Science and Industry

An MSI family membership to exhibitors (and their families) chosen to go to IJAS and 5 \$100 cash Inventive Genius Awards to exhibitors who exemplify the Museum's mission To Inspire the Genius in Everyone.

- Pam Barry
- Julie Parente

National Green Museum

A Hero of Planet Earth certificate to all Environmental Science exhibitors and an opportunity to be inducted into the Chicago/ILLINOIS Environmental Hall of Fame

- Catherine Corbin
- Allen Rubin

National Oceanic & Atmospheric Administration

One certificate and medallion to an exhibitor in earth conservation

National Society of Professional Engineers

One certificate and lapel pin to an exhibitor demonstrating innovative engineering

National Technical Association

One \$50 cash award to an outstanding exhibitor

- Cynthia Slater
- Melvin Slater

Nelson Strategy Memorial Award

Ten \$50 cash awards to outstanding exhibitors

- Susan Nelson
- Christine Chowanski-Doty
- Neil Faculty and Staff
- Yolanda Del Rio
- Linda Carter

Omega Psi Phi Fraternity Inc.

Two \$50 cash awards to outstanding exhibitors

- Melvin Slater
- Melvin Hargrett
- Ron Wright
- Eddie Greenleaf

Optical Society of America

One first place \$250 cash award, one second place \$150 cash award, and one third place \$100 cash award to best exhibitors involving optics

- George Magerl
- Howard Lange
- John M. Madigan, Jr.

Optical Society of Chicago

One \$100 cash award to the best project on optics or optics related technology

- George E. Magerl
- Howard Lange
- John M. Madigan, Jr.

Pearson-Prentice Hall

One computer microscope for an outstanding 7th or 8th grade exhibitor

- Alex Gomez

Peña Mathematical Excellence Award

Two \$65 cash awards to one middle grade and one high school exhibitor exhibiting the best use of collecting, analyzing and reporting data

- Jorge Peña
- Natasha Buckner-Peña

Phi Lambda Upsilon at Northwestern University

One \$100 cash award to an award to an outstanding exhibitor

- Daniel Wells

Radvila Physical Science Award

One \$50 cash award to a Physical Science exhibitor

- Nijole Mackevicius

Ricoh Sustainable Development Award

One certificate and eligibility to win a Ricoh digital camera

Robert H. Tucker Award

Two \$50.00 cash awards to outstanding exhibitors

- Maureen Tucker
- Robert Tucker

Rochelle Hawes Bolton - Award of Excellence

Three \$50 cash awards to exemplary exhibitors in the area of Health Science and one \$50 cash award to an exemplary exhibitor in the area of Behavioral Science

- Pamela Hawes-Green
- Deborah Hawes

Science Chicago

Eight Flip Mini Camcorder for projects that reflect the "Life's A Lab" concept showcasing how science impacts our lives.

- Cheryl Hughes
- Rabiah Mayas
- Heather Selby

Science Enterprise Award

Eleven \$100 cash award to unique exhibitors

- Gary Morrissey
- Shirley Morrissey

Scientific American Award for Outstanding Achievement

Five certificates and five one-year subscriptions to Scientific American to outstanding exhibitors

Scientific Merit Award

Two \$50 cash award to exemplary high school exhibitor in botany, biochemistry or microbiology

- RyAnn Nelson Jaiyesimi
- Rita Nelson

Scope Shoppe Inc.

One field microscope with case for exhibitor in Biology or Environmental Science

Slater Association

One \$50 cash award to an outstanding exhibitor

- Cynthia Slater
- Melvin Slater



Special Awards

Society for Science & The Public

Fifteen nominations to outstanding middle school exhibitors to compete in the SSP Middle School Program competition

- *Michelle C. Glidden*

Society for Technical Communication Chicago Chapter

One \$100 (at maturity) Savings Bond and one \$50 (at maturity) Savings Bond to recognize outstanding written and displayed technical communication.

- *Francis Bao*
- *Chris Hester*
- *Douglas Florzak*

Society of Tribologists and Lubricating Engineers

Special recognition to exhibitors with projects related to friction, wear, or lubrication

- *Dick Clark*

SPIE-- The Intl Society for Optical Engineering

One first place \$250 cash award, one second place \$150 cash award, and one third place \$100 cash award for projects relating to optics or imaging

- *George Magerl*
- *Howard Lange*
- *John M. Madigan, Jr.*

Stockholm Junior Water Prize

Three certificates to exemplary high school water related exhibits and eligibility to participate in the Stockholm Junior Water State Competition

Susan Engel Award of Excellence

One \$50 cash award to a high school exhibitor in Health or Medical Sciences

- *Susan Engel*

Teachers' Supply Box, Inc.

Two \$50 cash awards to an Area 14 exhibitor for outstanding research

- *Cliftena Kirkling*

Teresa Huggins Math/Science Award

Four \$50 savings bonds (at maturity) to two female and two male outstanding middle grade exhibitors

- *Teresa Huggins*

The Chicago Infectious Disease Research Institute

Two awards for outstanding effort in the field of microbiology, bacteriology or infectious diseases

- *Diane Patton*

United States Air Force

Four PadFolios with electronic Rolodex organizers, USB flash drives, PDAs, pens and pencils, and certificates

United States Army

A bronze medallion and certificate to an outstanding high school exhibitor; two certificates of merit to high school exhibitors; and three certificates of merit to elementary exhibitors

- *SGM Steven A. Edwards*

United States Department of Health and Human Services

One certificate signed by the United States Surgeon General to an exhibitor in Health Science

United States Metric Association Inc.

A certificate to an elementary exhibitor and one certificate to a high school exhibitor for best use of the SI metric system

- *Mark Henschel*

United States Navy

Special recognition certificates to three high school exhibitors and three elementary exhibitors

University of Illinois at Chicago - Computer Science Department

One Video iPod to an exhibitor who best exemplifies research in Computer Science

- *Dale Reed*

University of Illinois at Chicago - Department of Engineering

Five \$200 cash awards to exhibitors who best exemplify research in the disciplines of Bioengineering, Chemical Engineering, Civil and Materials Engineering, Computer Science, Electrical and Computer Engineering, and Mechanical and Industrial Engineering

- *Dale Reed*
- *Denise Hayman*

UOP-Des Plaines Research Facility

Five cash awards: One Gold award of \$150; one Silver award of \$100; and three Bronze awards of \$50 each to be awarded in the areas of chemistry, physics and environmental sciences and portfolios

- *Ron Gatan*
- *Willie Morrisette*
- *Anna Parr*

Upton Special Science Award

One \$200 cash award, two \$150 cash awards, and one \$50 cash award presented to exhibitors from Area 17

- | | |
|--------------------------|----------------------------------|
| • <i>Tommie Gathings</i> | • <i>Willie Williamson</i> |
| • <i>Jill Kittinger</i> | • <i>Rona Watkins</i> |
| • <i>Frankie Pierce</i> | • <i>Monica Rozell</i> |
| • <i>Tracey Kidd</i> | • <i>Francesca Little</i> |
| • <i>Lawanda Mahomes</i> | • <i>Dehlia Mendoza</i> |
| • <i>Valerie Hardy</i> | • <i>Linda Johnson McClinton</i> |
| • <i>Lorraine Wilson</i> | • <i>Michelle Kilby</i> |
| • <i>Delena Little</i> | • <i>Janaya Ross-Shaw</i> |
| • <i>Meredith Brown</i> | • <i>Joy Dillard</i> |

Wangari Maathai Award

Two \$100 savings bonds (at maturity) for exemplary projects with potential for positive environmental impact

- *Wendy Jackson*

Wojo Award

One \$200 cash award to an exemplary elementary exhibitor

- *Melanie Wojtulewicz*

Special Awards

Yale Science & Engineering Association

One certificate and medallion to an outstanding 11th grade exhibitor in Computer Science, Engineering, Physics, or Chemistry

Young Scientist Award

One \$50 cash award to an elementary student and three \$50 cash awards to high school students for their scientific research endeavors.

- *RyAnn Nelson Jaiyesimi*
- *Rita Nelson*

YTB Travel

Two \$50 cash awards to articulate exhibitors

- *Kenneth Lewis, Sr.*
- *Deborah Lewis*

Zaner Bloser Educational Publishers

Two \$50 cash awards to exemplary exhibitors

- *Bernard Turner*





Special Awards





CPS Student Science Fair Special Programs

Research Grants – money for student research

Mini-grants are available to students in Grades 7 through 12 for the purpose of providing financial aid while conducting research projects. Students may apply for renewable grants of up to \$100 per semester. These funds may be used for the purchase of materials and equipment not available in their schools, but which are needed to complete the student's experimental research. Students may apply to the Research Grants Committee of CPS Student Science Fair, Inc.

Maxi-grants are awarded to students in Grades 9 through 12 and provide financial support in amounts of \$101–\$500. This grant is available to students who have already demonstrated excellence in science projects and are in need of more expensive materials and equipment in order to continue their research. Students must apply to the Research Grants Committee of CPS Student Science Fair, Inc. and, if accepted, must present their work at an interview with members of this committee. An application can be found in the current *2009 Student Handbook* and on the Internet at: www.chicagostudentsciencefair.org.

Advise-A-Student – professional advice for student research

The Advise-A-Student program is designed to provide technical advice to students in Grades 7 through 12 who are working on a research project. Advice is available only after students exhaust school resources and have thoroughly researched their topic in the library. In order to discuss and obtain assistance in improving their projects, students must apply for a research advisor by submitting an application to the Advise-A-Student Committee of CPS Student Science Fair, Inc. An application can be found in the current *2009 Student Handbook* and on the Internet at: www.chicagostudentsciencefair.org.

Science Fair Central – workshops for student research

Northeastern Illinois University and Chicago State University will open labs in their science buildings on Saturday mornings next September and October, and invite high school and elementary school students, teachers, parents, and mentors to the campus. NIU

will provide professional advisors; lab set-up space and materials; and photocopy, computer, and library access. In addition, some modest start-up funds for poster boards, markers, and general display materials may be available. More details will follow in a mailing to teachers at the beginning of the fall 2009 semester. Please contact Paul Dolan, Professor of Physics, Northeastern Illinois University at P-Dolan@neiu.edu or 773-442-5785, or Robert LeSuer, Chicago State University, at rlesuer@csu.edu or 773-995-2321.

Science Clubs – after school help from teachers for student research

ComEd, An Exelon Company has provided funding for over 30 high school science clubs each year for more than 5 years. The primary objective was to compensate teacher-sponsors for guiding students as they developed science fair projects. Club sponsors receive money to purchase supplies, materials, and/or equipment for conducting club activities. Peoples Gas began funding for one middle school science club in each of the 17 CPS Instructional Areas this year. In addition to stipends and equipment grants, these clubs also have the help of a Peoples Gas engineer who volunteers to advise club members on their science research.

Scholarships – college funds for science fair alumni

In order to support the CPS Student Science Fair and to encourage students to consider careers in science, several local universities have provided renewable tuition waiver scholarships. In addition, monetary contributions from various sources in the business community have been volunteered as well as solicited to provide additional scholarships. Any prospective Chicago public high school graduate who has participated in at least one science fair (during Grades 7–12) at either the area or city level and/or the symposium is eligible to apply for a scholarship. The Scholarship Committee, comprising Science Fair representatives, business and education, selects scholarship recipients on the basis of participation in the Chicago Public Schools Science Fair, scholastic achievement, future goals, and personal interviews. Since 1956, CPS Student Science Fair Inc. has awarded 1,857 scholarships valued at \$2,406,302 to students from 66 Chicago public high schools.



2008 Scholarship Winners

Any prospective June CPS high school graduate who has participated in at least one CPS science fair (during grades 7-12) at an area or the city level and/or the symposium/essay competition; and who is planning to major in science, mathematics, engineering, or computer science is eligible to apply for a scholarship. The Scholarship Committee, representing business and education, selects scholarship recipients on the basis of participation in the Chicago Public Schools Science Fair, scholastic achievement, future goals, and personal interviews.

The June 2008 high school graduates listed below were selected to receive financial awards by the Chicago Public Schools Student Science Fair, Inc. Scholarship Committee.

Since 1956, Student Science Fair, Inc. has awarded 1,857 scholarships, valued at \$2,406,302 to students from 66 Chicago public high schools.

Student High School	College Destination Major	Sponsor Amount
Hedaiah Abuobeid <i>Bogan</i>	University of Illinois at Chicago <i>Biological Sciences/Pre-Med</i>	University of Illinois at Chicago <i>Full-Tuition Waiver/ \$9,000Yr 4-Yr/Renewable</i>
Rebecca Cholst <i>Payton</i>	Yale University <i>Chemistry</i>	Donald & Helen Edwards <i>\$1,500</i>
Lenora Cravens <i>Dyett</i>	Robert Morris College <i>CDW Corporation</i>	Computer Technology <i>\$1,000</i>
Elsa Culler <i>Lincoln Park</i>	Olin College <i>Harold Kiehm Memorial</i>	Engineering <i>\$2,500</i>
Barbara Davenport <i>Tilden</i>	Loyola University <i>Barbara McCormick Memorial</i>	Forensics Science <i>\$1,000</i>
Jasmin Francisco <i>Senn</i>	Michigan Technological University <i>Blum-Kovler Foundation</i>	Biomedical Engineering <i>\$1,000</i>
Michael Daly <i>Kelvyn Park</i>	Wright College <i>Praxair Foundation, Inc.</i>	Mechanical Engineering <i>\$1,000</i>
Eva Feldman <i>Lincoln Park</i>	Vassar University <i>Mary Nalbandian</i>	Environmental Studies <i>\$5,000</i>
Gahan Furlane <i>Lincoln Park</i>	Georgetown University <i>BP America Inc.</i>	International Health <i>\$3,000</i>
Kirby Gibson <i>Brooks</i>	University of Wisconsin - Madison <i>Harold Kiehm Memorial</i>	Chemical Engineering <i>\$2,500</i>
Nicole Hok <i>Amundsen</i>	University of Illinois at Chicago <i>University of Illinois at Chicago</i>	Pharmacy <i>Full-Tuition Waiver/\$9,000 Yr 4-Yr Renewable</i>
Alyssa Joiner <i>Chicago Ag</i>	University of Illinois at Chicago <i>Ray Readus Memorial</i>	Biology <i>\$1,000</i>
Leigh Hamp <i>Lincoln Park</i>	University of Wisconsin - Madison <i>ComEd, An Exelon Co.</i>	Biology <i>\$3,000</i>
Rachel Hurt <i>Kelvyn Park</i>	Elmhurst College <i>Chicago Teachers Union</i>	Nursing <i>\$500</i>



Student High School	College Destination Major	Sponsor Amount
Hedaiah Abuobeid	University of Illinois at Chicago	University of Illinois at Chicago
Rachel Hurt <i>Kelvyn Park</i>	Elmhurst College <i>Chicago Teachers Union</i>	Nursing \$500
Alexiaa Jordan <i>Hope</i>	University of Illinois <i>Combined Charities</i>	Biochemistry \$1,500
Faraz Khan <i>Northside CP</i>	University of Chicago	Microbiology <i>University of Chicago Tuition Waiver</i> \$2,000 Yr/4-Yr Renewable
Veronica Magdalen <i>Gage Park</i>	University of Illinois at Chicago <i>CDW Corporation</i>	Computer Science/Math \$1,000
John Mussman <i>Northside CP</i>	Harvard University <i>Tom Maloney Memorial</i>	Physics \$1,000
Steven Kirk <i>Hyde Park</i>	Illinois Wesleyan <i>Sargent & Lundy</i>	Biology \$2,000
Henry Mattingly <i>Lincoln Park</i>	Brown University <i>Alumni Association</i>	Engineering \$1,000
Julian Otis <i>Payton</i>	Temple University P <i>Praxair Foundation, Inc.</i>	Biochemistry \$3,000
Derrick Rhodes <i>Chicago Ag</i>	University of Illinois <i>Geri Blakley Memorial</i>	Human Nutrition \$1,500
Emmanuel Serna <i>Kelvyn Park</i>	University of Illinois at Chicago <i>Praxair Foundation, Inc.</i>	Biology \$1,000
Theodore Zajler <i>Lane</i>	University of Evansville <i>Motorola Foundation</i>	Biology \$3,000
Saajidha Rizvydeen <i>Senn</i>	Lake Forest College <i>Kenneth Zdunek and Mary Memhardt</i>	Biology \$1,000/ Motorola Matching Gift/\$1,000
Stephen Welty <i>Northside CP</i>	University of Illinois <i>CDW Corporation</i>	Aerospace Engineering \$3,000
Jing Zhao <i>Tilden</i>	Loyola University <i>Loyola University</i>	Dietetics <i>Tuition Waiver/\$2,000 4-Yr Renewable</i>





Number of Scholarships Awarded (1956 – 2008)

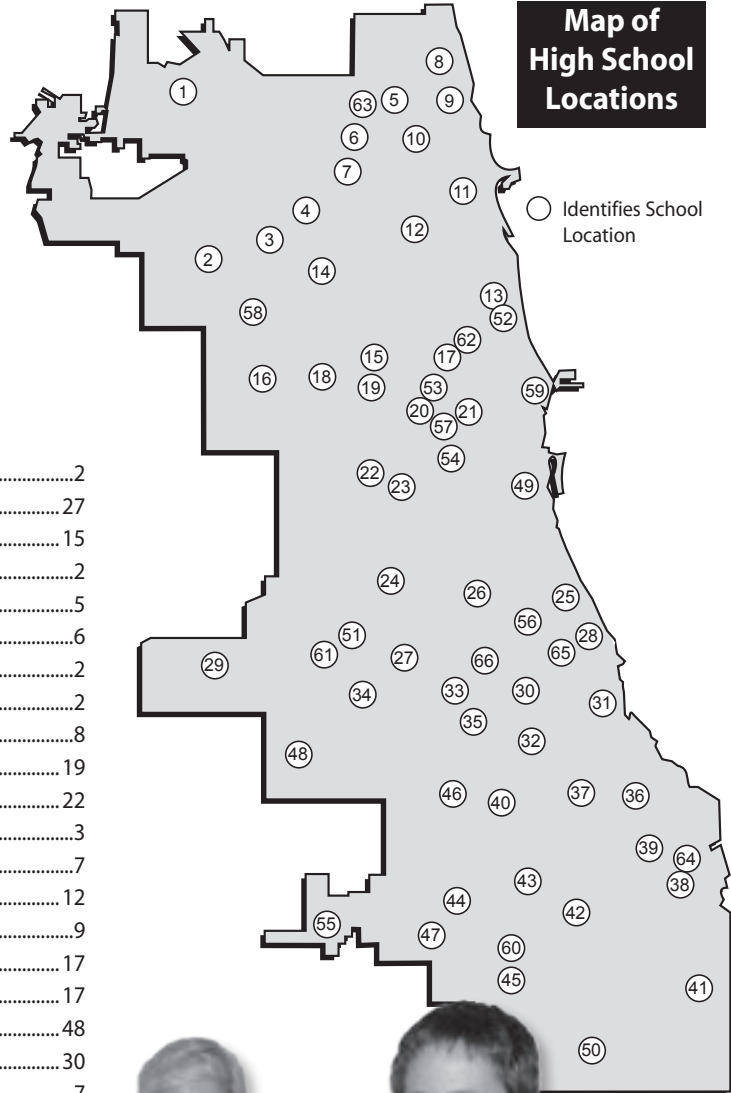
Map no. School Scholarships

10	Amundsen	19
16	Austin	8
64	BEST	1
57	Best Practice	1
48	Bogan	27
38	Bowen	15
60	Brooks	3
46	Calumet	4
50	Carver	5
55	Chicago Ag.	33
39	Chicago Voc.	7
15	Clemente	1
42	Corliss	11
20	Crane	1
53	Cregier	2
51	Curie	11
49	Dunbar	1
56	DuSable	3
65	Dyett	1
30	Englewood	4
22	Farragut	4
45	Fenger	14
18	Flower	1
03	Foreman	24
27	Gage Park	4
61	Hancock	4
43	Harlan	5
35	Harper	4
23	Harrison	4
37	Hirsch	5
66	Hope	1
34	Hubbard	15
31	Hyde Park	16
59	Jones	4
54	Juarez	3
44	Julian	3
24	Kelly	11
14	Kelvyn Park	11
29	Kennedy	14
28	Kenwood	14
25	King	2
11	Lake View	7
12	Lane	99
13	Lincoln Park	108
33	Lindblom	20

19	Marshall	2
05	Mather	27
47	Morgan Park	15
52	Near North	2
63	Northside CP	5
62	Payton	6
58	Prosser	2
32	Robeson	2
07	Roosevelt	8
04	Schurz	19
09	Senn	22
40	Simeon	3
36	South Shore	7
02	Steinmetz	12
08	Sullivan	9
01	Taft	17
26	Tilden	17
06	Von Steuben	48
41	Washington	30
17	Wells	7
21	Whitney Young	41

Map of High School Locations

○ Identifies School
Location





ComEd High School Science Club Program

The following high schools have approved after-school science clubs sponsored by ComEd, An Exelon Company. Each club is provided with a stipend for the club sponsor (or shared among two or more club co-sponsors) and funds for instructional materials and supplies. The primary objective of the ComEd Science Club Program is to provide guidance to students interested in developing science fair projects.

Amundsen
Eman Sarhan

Austin Business
Elaine Khoong
Bethany MacCarter

BEST HS
Tammara Hill

Bogan
Stephen Farr
Margaret Farr

Brooks
Aurora Tyagi

Clemente
Sophia Kim

Corliss
Jamiu Sokoya

Curie
Donald Price
Latoyia Shadd

Dyett
Linda Thomas

Fenger
Susany Satish

Hope
Carrie Kessinger
Nicholas Roumpakis

Hyde Park
Maya Raja

Juarez
Mary Norris
Andrea Momchilov

Julian
Monique Murray
Thomas Idicula

Kelvyn Park
Thomas Unger
Amelia Cote

Kennedy
Christine Segina

King
Alicia Choi



Lake View
RyAnn Nelson-Jaiyesimi

Lane
Jassen Lanfair

Mather
Marjorie MacLean

Morgan Park
F. Gebrehiwot
Eddie Marie Gonzalzes

New Millennium
Paula Dell

Payton
Walter Kinderman
Gloria Ma

Phoenix
Beatrice Jaji
Dennis Carroll

Prosser
Daniel Gawne



Richards
Gurpreet Juneja

School of Leadership
Eulette Arrington-Harris

Simeon
Alberta Lawrence-Smith Austin
Prater

Taft
Brenda McGeever

Wells
George Hill
James Townsley

Whitney Young
Lynne El-Amin Waheed

World Language
Ruquiyah Rahman-Aquil



Peoples Gas Middle School Science Club Program

The following elementary schools have approved after-school science clubs sponsored by Peoples Gas. Each club was provided with a stipend for the club sponsor and a kit of materials to inspire ideas for independent research projects. Peoples Gas engineers volunteered to lend their expertise to club members on their projects. The primary objective of the Peoples Gas Science Club Program is to provide guidance to students interested in developing science fair projects.

Bennett Elementary
Laura Wallace

Brunson Elementary
Mary Capra

**Chicago Academy
Elementary**
Oscar Newman

Claremont Academy
Joy Reeves

Dixon Elementary
Joy Dillard

Graham Elementary
Wanda Power

**Gunsaulus Scholastic
Academy**
Rosario Canizales

Haines Elementary
Bridget Dziedzic

Herbert Elementary
Vinita Kapoor

**Kellman Corporate
Community School**
Maureen Callahan

Parker Elementary
Karen Harris

Peck Elementary
Amanda Scampini

Sabin Magnet School
Conor Klaus

Shoop Elementary
Michelle Smith

Swift Elementary
Carlos Irizarry

Till Elementary
Thomas Ziencina

Yates Elementary
Amber Richard





Science Fair Volunteers

On the following pages are the names of almost 1300 people who give of their own time and of themselves to make the CPS Student Science Fair possible. **THANK YOU!**



THANK YOU



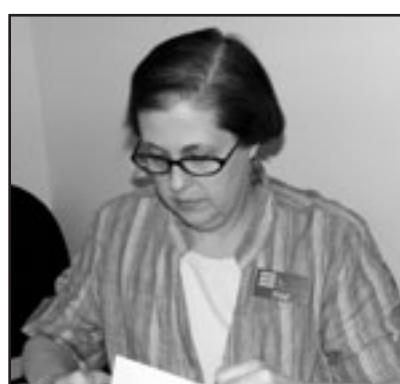
Faces of the Student Science Fair



THANK YOU



Faces of the Student Science Fair



THANK YOU



Exhibit Judges

Each year approximately 300 judges from the scientific, academic, and business communities generously donate their time, effort, and expertise in order to objectively and professionally evaluate the most scientifically talented students from the Chicago Public Schools. Science Fair honors judges who have served for a minimum of five years and on every fifth anniversary. Judges receiving a plaque for service are invited to a special Recognition Luncheon which will be held after judging is completed.

Science Fair salutes ALL the Exhibit Judges participating in the 59th Annual CPS Student Science Fair.

Thank you and congratulations for a job well done!

Janice Ableman

Illinois Department of Children and Family Services

Paula Adams

A T & T

James Aderhold

Gas Technology Institute

Robert Todd Agosto**Jose L. Agraz**

Northwestern University

Larry Alofs**Anushka Anand**

University of Illinois at Chicago

Michael Ander

URS Corporation

Mike Anderson

Peoples Gas

Peter Austin, DDS

Oak View Dental Group

Alaina Avery

Shedd Aquarium

Rebecca Babowice

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Nalco Company

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Larry Bennett

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THANK YOU



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Swedish American Health System

James Deiters

Richard Delzenero

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Paul J. Dolan Jr.

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Paul Doppelt

P. D. Consultant Inc.

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John Dworak

Patricia Ebelt

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Gilbert Elenbogen

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Olivia D Evans

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Northeastern Illinois University

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Electro-Motive Diesel

Julie Henning

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Burnetta Herron

Advocate Trinity Hospital

Leo Herzenberg

Kate Higginbotham

University of Chicago

Stephen Hile

CNH Global

Alicia Hill

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THANK YOU



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Myra Hoshowski

Jeannie Houchins, RD

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Shedd Aquarium

Ken Hunt

Nikisha Hunter

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A T & T

Edward J Mikel Jr

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Dave Miller

Alcatel-Lucent

Jacqueline Miller

University of Chicago Medical Center

THANK YOU



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Fortis Clearing Americas

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Environmental Design International

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University of Chicago

Oscar Yau

Northrop Grumman Corporation

Howard Zar

Senior Service America/EPA

Mike Zochowski

Peoples Gas



THANK YOU



Symposium Readers and Judges

Symposium Readers

The following individuals, in addition to the Symposium Committee, generously volunteered their time and expertise on Saturday, January 25th, 2009 to read research and essay papers submitted for evaluation. *Thank you, Symposium Readers!*

Michael Bentley
Hortense Brice
Jeremiah Campion
Roy Coleman
Claire A. Cornelius
Angela Dumas
Steve Farr
Ethelene Hare

Nina Hike-Teague
Joel Hofslund
Beatrice Jaji
Kevin Krakovsky
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Rita Nelson
Patricia A. Parsons

Dorothy E. Patton
Patricia Riley
Steven Rooney
Emily Russell
Ed Scanlon
Anne Marie Sherry
Dianna Uchida
Fran Vandervoort

Symposium Judges

The following scientists and engineers volunteered their time and expertise on Thursday, March 26, 2009 to act on a panel of judges to select the finalists who will participate in the Illinois Junior Academy of Science Symposium.

Charmagne Ackerman
U.S. EPA

Reza Baherian
U.S. EPA

Shelia DeSai
U.S. EPA

Mirna DiPano
Abbott Laboratories

Newton Ellens
U.S. EPA

Curtis Frank
Frank Professional Engineers

Dr. Helene S. Gabelnick
Harold Washington College (Retired)

Xenia Guerrero
Abbott Laboratories

Joel Hofslund
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Jimmie Julion
Chicago Department of Water Management

Joseph Kerke
CPS Chemistry Teacher (Retired)

Sharon Kiddon
U.S. EPA

Fred Korty
Lucent Technologies (Retired)

Sharon Korty
Retired

Danny Marcus
U.S. EPA

Julie Morris
U.S. EPA

Bernie Orenstein
U.S. EPA

Terri Rancher
U.S. EPA

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U.S. EPA

Rae Trine
U.S. EPA

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CPS, retired

Noel Vargus
U.S. EPA

Mary Villarreal
U.S. EPA

Joseph Welk
Abbott Laboratories

Felicia Williams
U.S. EPA

Jason Wu
Abbott Laboratories



THANK YOU



MEMORIAL TRIBUTE TO ALLEN G. NELSON

1948-2008



During his 34 years of dedicated service to students and teachers of the Chicago Public School system, Allen G. Nelson was a k-8 science educator for 23 years and he assisted with the Under the Umbrella and the End of Year Science Event. For four years Allen had been a citywide science facilitator in the Office of Mathematics and Science where he worked as a team member with three other science specialists; and he was a professional development provider of science fair workshops.

In the late 90's Allen served on the District (8 and 13) then Regional 4 Science Fair committee while working as a teacher at Altgeld and Hampton schools; he was a member of NSTA and ISTA; he worked with Delta Education (after retirement from CPS) introducing the reform, inquiry-based science instructional materials to other school districts.

From 1992 to 2003 he was a member of the CPS SSF Exhibits committee; since August 2003 he served as Chairperson of the Exhibits Committee assisting in the design and set-up of the Citywide Science Fair. From 2004 to June 2008 he served as a member of the SSF Board of Directors where he assisted in the development of elementary summer science camps and after-school science clubs; and he was an advocate for the Special Awards committee where he insisted on acknowledging the underrepresented student.

Allen served as a chaperone to the International Science and Engineering Fair, held in Phoenix, Arizona, May 2005, where he provided guidance and assistance to the four CPS SSF finalists during the weeklong competition.

On behalf of the CPS Student Science Fair, Inc. Board of Directors, Roy Coleman proposed and initially funded the establishment of the Allen G. Nelson Memorial Scholarship. The CPS SSF, Inc. is deeply appreciative of the many contributors to this scholarship. This scholarship will be awarded annually to a deserving CPS graduating senior beginning in May 2009.

THANK YOU



Administrative Officers/Operating Committees

The City Science Fair would not be possible were it not for the effort of the dedicated CPS employees and retirees who give days and weeks of their time and have done so for years. They invest their time behind the scenes preparing an event and supporting programs for the purpose of fostering science education, encouraging students to engage in independent research and providing those students a public forum to present their work.

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Edward Scanlon

Morgan Park

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Many thanks go to the Area Science Fair Committees, who contribute their time and effort to create the events at which the best of the projects from the school science fairs are presented and judged. Though the focus of the event is on students' projects, these events succeed due to the care and attention to detail of those people working on arrangements, credentials, exhibits, judging and safety committees.

Elementary Areas

Elementary Area Science Fair Committees are chaired by the Area Math/Science Coaches. The committees may include the lead science teachers from participating schools and the chairpersons' Area Office colleagues. Their effort, often extending beyond the limit of the work day is greatly appreciated.

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High School Area Science Fair Committees are led by volunteer high school teachers. They give their free time and much effort to organize and coordinate the various committees manned largely by science teachers from participating schools. Without their contribution of hours and manpower the HS Area Fairs would not be possible.

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The teachers who sponsor student projects are more than just those students' science teachers. They go beyond classroom instruction to launch students into learning and doing science for themselves, in their own independent research experiment. Additionally, they make sure their students follow safety rules, write a solid research paper and complete the necessary paperwork to produce a science project.

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Crane	<i>Anita Misra</i>	Demara Howard
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De Diego	<i>Maraliz Salgado</i>	Fabian Diaz
De La Cruz	<i>Angela Lewis</i>	Fabian Carbajal
Disney	<i>Ann O'Brien</i>	Najah Ahsan
Dore	<i>Elizabeth Alvarez</i>	Brian Pacholski
Dunbar	<i>Myrna Alvarez</i>	Anniky Billups
Durkin Park	<i>Diane Esquibel</i>	Omar Ortiz
Dyett	<i>Linda Thomas</i>	Debra Jones Richard Robinson Jr.
Edison	<i>Mia Clementz</i>	Pauline Esman Ameena Khan
Fairfield	<i>Kristin Beyer</i>	Korina Rodarte
Farnsworth	<i>Kristin Schienbein</i>	Claire Auger Katherine McDermott
Gage Park	<i>Patricia Parsons</i>	Antwon Bryant Alexandra Herrera Andrea Sanders Delmario Shine Giselle Villa

School	Teacher/Sponsor	Student
Garvy, J.	<i>Terri Hehn</i>	Elizabeth Tran
Gary	<i>Michael Chen</i>	Jesse Meza
Gillespie	<i>Monica Rozelle</i>	Alundra Dickson
Goethe	<i>Ann Yost</i>	Gissel Espinoza
Green, W.	<i>Marva Anyanwu</i>	Trivon Wells
Gunsaulus	<i>Rosario Canizales</i>	Ellen Curtin Charles Kucharzak
Haines	<i>Bridget Dziedzic</i>	Terence He
Hale	<i>Laura Gray</i>	Soler Natalia
Hamline	<i>Michelle Maldonado</i>	Jacqueline Olguin Maria Paredes
Harlan	<i>Shanna Barkume Tammy Butler</i>	Kelsey Holt Raven Maberry
Harvard	<i>Kimberly Sambou</i>	Jalissa Phillips
Hawthorne	<i>Sonja Oliveri</i>	Noah Asimow
Henson	<i>Je'Nest Murry</i>	David Adejinmi Samuel Adejinmi
Herbert	<i>Vinita Kapoor</i>	Chloee Avery
Hirsch	<i>Lacy Grigsby Abdul Muztar</i>	Kyia Mills Nepresha Martin Cierra Moore
Hope	<i>Carrie Kaestner</i>	Amanda Crawford
Hubbard	<i>Leeann Finley Deborah Kim</i>	Martha Arteaga Alexandra Sanchez Edith Flores
Hyde Park	<i>Daniel Mullens Eddy Pierre Maya Raja</i>	Latavia Hill Stevlan Price Corey Allen Chohnice Daniels Jennie Gauthier Micheal McKinnie

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Maya Raja (cont'd)		Salena Tucker Deonte Womack
Infinity		
<i>Beatriz Santin Vazquez</i>		Erika Diaz Anthony Garcia
Inter-American		
<i>Maritza Soto</i>		Martin Rosas
Irving		
<i>Nonilon Urgel</i>		Marilyn Barnes
Jackson, A.		
<i>Amy Koonce</i>		David Castro Rebecca Iturralde
Jones		
<i>Alexis Kovacs</i>		Manuel Valle
Jordan		
<i>Rochelle Cueto</i>		Jamesha Bennett
Juarez		
<i>Mary Norris</i>		Karina Aranda Fernando Araujo Victoria Hernandez Victor Medina Esteban Perez
Julian		
<i>Doris Agbefe Monique Murray</i>		Diamond Dickerson Shantell Steve
Kanoon		
<i>Katrina Corcoran</i>		Romualdo Chavez
Kellman		
<i>Maureen Callahan</i>		Kiara Bullocks Jamar Leonard
Kennedy		
<i>Keitel Thelemaque</i>		Kevin Gename Bernadette Lona
Kenwood		
<i>Daniel Greenwald</i>		Dekonti Davies
King		
<i>Alicia Choi</i>		Brandon Durr Porter Hopps IV Julie Khuu Tatiana Mack LaDonna Miller Angela Robateau Brittany Shropshire Karon Smith
Lake View		
<i>Mahesh Alur RyAnn Nelson-Jaiyesimi</i>		Sana Ahmed Audrey Kaminski-Morris Jimmy Zagorski Linda Zhou
School	Teacher/Sponsor	Student
Lane		
<i>Kathryn Beck</i>		Oluwamide Agunloye Evan Andersson Afra Khan Thomas Lauletta Alexandro Ortiz Nadiya Voytanovych Joanna Buksa Suad Causevic Piotr Halon Nicole Kuklinski Karen Perez
<i>James Keating Kevin Kopack</i>		
<i>Ellen Kulick</i>		
Lane (continued)		
<i>Jassen Lanfair</i>		Saad Khan Margaret Tran Daniela Zermenio Faiza Sulaiman Jesus Sanchez
<i>Dianne Lebryk Marilynn Stone</i>		
Lathrop		
<i>Jill Sweet</i>		Tiajuanna Douglas
Leadership		
<i>Eulette Arrington-Harris Glennie King Sheree Parnell-Booth</i>		Jhanae Jackson Tonika Thomas Reginald Branch
Lenart		
<i>Kathleen Doyle</i>		Michael Carnowell Benjamin Chrobak-Prince Shelby Spence
Lincoln		
<i>Sue Nutter</i>		April Bell Daniela Flax Lorenzo Villegas
Lincoln Park		
<i>Michael Bentley Rebecca Corrigan James Galinski Riley Patricia Scott Payne Patricia Riley Steven Rooney Emily Russell</i>		Terrence George Sofia Gomez-Doyle Yoonjeong Kim Mengyi Xu Leah Balay-Wilson Nicholas Cernek Daniela Fernandez Emir Vulic Erin Bennett Elad Deiss-Yehieli
Lindblom		
<i>Hortense Brice Alex Brown Sandra Joy Casad Ed Hershey</i>		Jourdan Howard Maleke Clemmons Anissa James Jaylon Tucker Tyehimba Turner Benita Brown

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	<i>Milja Lazarevic</i>	Christina Cinaj Samantha Sowa
Lovett		
	<i>Sharron Crowder</i>	Marcel Washington
Lyon		
	<i>Marianne Galassini</i>	Rigoberto Olmos
Mather		
	<i>Charmaine Danguilan</i> <i>Theresa Kottthoff</i>	Marzieh Salehitazangi Ramon Robles
McKinley Park		
	<i>Gretchen Anderson</i>	Christopher Amezcua
Metcalfe		
	<i>Erica Proffit</i>	Brittney McClendone
Mireles		
	<i>Lajuana Jackson</i>	Nickolas Diaz
Mitchell		
	<i>Donna Wipf</i>	Sarah Lopez Ariya Pongsiririt
Monroe		
	<i>Anne Horton</i>	Marvin Lopez
Morgan		
	<i>Janice Coleman-Mathus</i>	Stevon Jenkins
Morgan Park		
	<i>Emily Berna</i> <i>Frehiwot Gebrehiwot</i> <i>EddieMarie Gonzalzes</i>	Carlos Garcia Jaeda Branch Nicole Bolton Kirsti Gilmore
	<i>Paul Kerns</i> <i>Theresa Marshall</i>	Meghan Thomas Nia Moreno
Morrill		
	<i>Rachel Eddington</i>	Margarita Santamaria
New Sullivan		
	<i>Robin Bates</i>	Alexandra Barraza
North Grand		
	<i>Cheryl Heitzman</i>	Amaury Valentin
Northside		
	<i>Lidia Ortiz</i>	Aisha Ahmad Bhumi Patel Thuy Tran
Northwest Middle		
	<i>Marquita Archie</i>	Bibiana Delgado
Norwood Park		
	<i>Alanna Mertens</i>	Lindsay Phillips
Ogden		
	<i>Carol Scafide</i>	David Tong
Palmer		
	<i>Janet Ruff</i>	Kevin Jarr

School	<i>Teacher/Sponsor</i>	<i>Student</i>
Pasteur		
	<i>Joanne Bujak-Dominiak</i>	John Rodriguez
Payton		
	<i>Walt Kinderman</i>	Jonathan Aird Michael Cadiz Marie Donaldson Austin Maliszewski Maria Manghi Roksana Pietrasienska Jordan Sawyer Michael Schultz
	<i>William Lyons</i>	
Peck		
	<i>Amanda Scampini</i>	Brigette Dzialek
Pershing West		
	<i>Eve Ewing</i>	Norton Helton
Phoenix		
	<i>Beatrice Jaji</i>	Kenny Alvarez Miguel Estrada
Powell		
	<i>Stacy Stewart</i>	Charles Taylor
Revere		
	<i>Valerie Docks</i>	Raquita Martin
Richards		
	<i>Gurpreet Juneja</i>	Jesus Garcia Shatrice Meeks Arely Vargas Tania Guzman Agustin Rodriguez
	<i>Tesfaye Telila</i>	
Rogers		
	<i>Michael Chon</i>	Shahzaade Cannon
Sauganash		
	<i>Meghann O'Mara</i>	Gabriela Zamora
Sawyer		
	<i>Doris Hansbrough</i> <i>Grace Olmos</i>	Victor Lopez Lidia Mendoza
Sayre		
	<i>Eric Porte</i>	Benjamin Vega
Schmid		
	<i>Corina Rodriguez</i>	Christopher Smith Cecilia Tate
Schurz		
	<i>Concepcion Millet-Rivera</i> <i>Syed Qadri</i>	Maria Diaz Danielle Watkins
Senn		
	<i>Eleanor Flanagan</i> <i>Antonio San Agustin</i>	William Kwateng Sana Iqbal
Seward		
	<i>Lorel Madden</i>	Andrea Jimenez

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Simeon	<i>Alberta Lawrence-Smith</i>	Tashaina Collier	Whitney	<i>Kerri Scanlan</i>	Jennifer Aguilar
Skinner	<i>Cheryl Pope</i>	Akele Spencer	Williams Prep	<i>Aaron Weiss</i>	Omari Roberts Mark Sikorski <i>Anna West</i> Fatimah Askia
Spencer	<i>Deborah Bradley</i>	Anthony Rivera Jonathan Smith	World Language	<i>Mrs. Rahman-Aquil</i>	Brandon Edwards Kiara Reyes
Taft	<i>Michael Bakula</i>	Dennis Hehn Deanna Pirpiris	Yale	<i>Susan McDonald</i>	Racquel Moore
	<i>Ewa Dudek</i>	Bart Kotlarek	Yates	<i>Amber Richard</i>	Jocelyn Meraz
	<i>Susan Groziak</i>	Margaret Nolan Juliette Pirpiris	Young	<i>Emily Benz</i>	Charles Lyang Lucy Zhuo
	<i>Brenda McGeever</i>	Enxhi Zekthi		<i>Lynne El-Amin</i>	Christiane Alford Hannah Blackwood Adrienne Chung Matthew Decker Derek Drozd Victoria Grose Clara Ledsky Melissa Lin Belinda Moy Yutian Sheng Erica Knox Maggie Mercurio
Tanner	<i>Jacquelyn Cohen</i>	Victoria Price		<i>Jason Lopez</i>	
Tilden	<i>Parul Modha</i>	Muyuan Gong		<i>Ryan Neris</i>	
	<i>Anuradha Sood</i>	Alfredo Guerrero		<i>Katherine Rehak</i>	
	<i>Edward Talbot</i>	Christopher Evans			
Turner-Drew	<i>Kristel White</i>	Taylor Cephaz			
Twain	<i>Mary Carole Moss</i>	Lucero Flores			
Von Steuben	<i>Mary Jo Arnashus</i>	Nancy Aguilar Marta Budzikowska Alexander Robbins			
	<i>Seung Cha</i>	Elin Erickson Sana Hira			
	<i>David Kaplan</i>	Jason Izui			
	<i>Carmen Marquez</i>	Kyle Swartz			



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Acknowledgments

The Annual Chicago Public Schools Student Science Fair represents one of the best syntheses of the city's business and educational communities. The not-for-profit CPS Student Science Fair, Inc. is a coalition of public school teachers and administrators. They coordinate this yearly showcase with the aid of the aforementioned Chicago Public Schools, the Museum of Science and Industry, and this year's corporate sponsors, The Motorola Foundation, BP America Inc, and ComEd, An Exelon Company as well as many others.

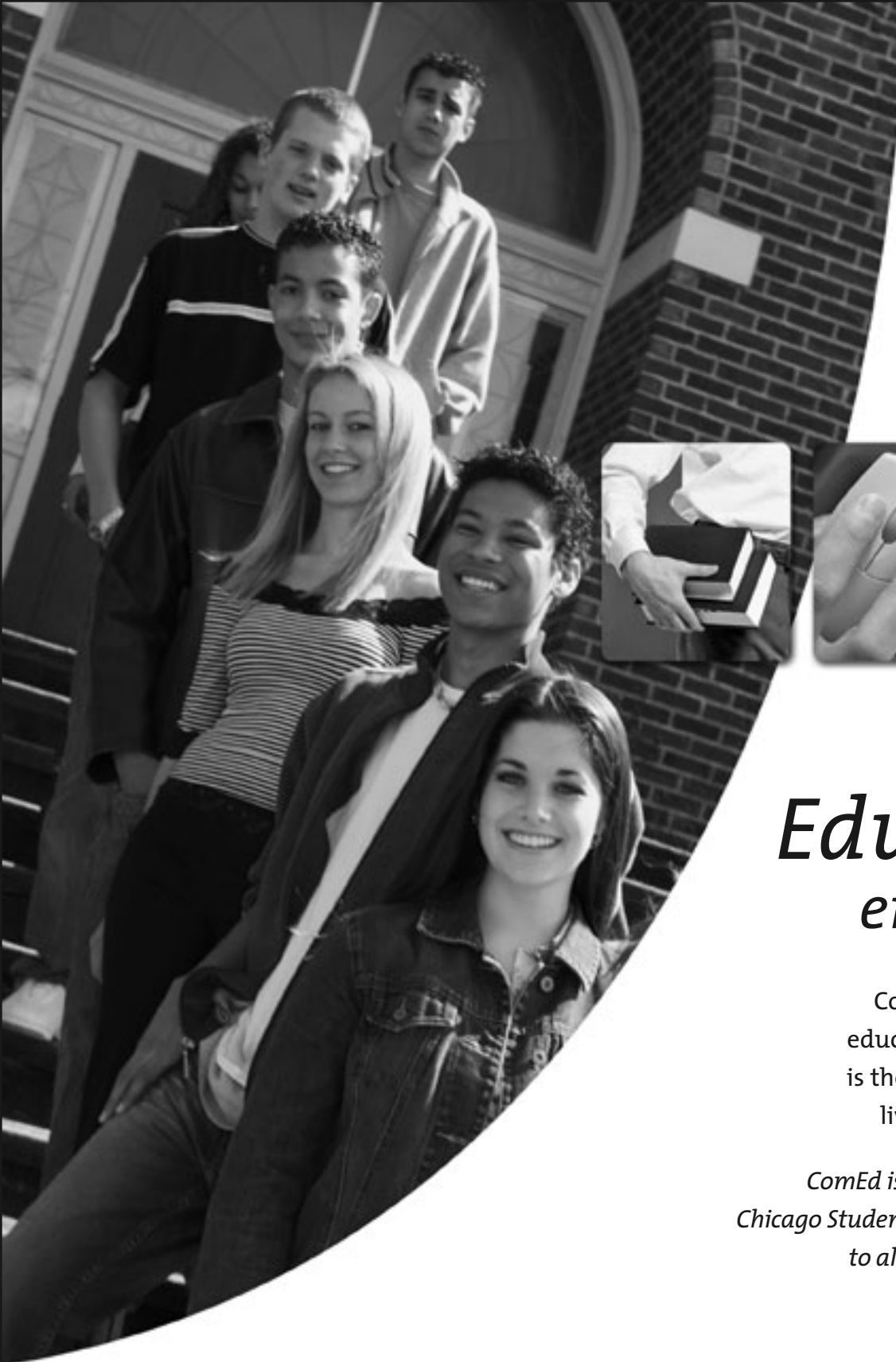
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- The students who worked so diligently to develop the outstanding research and displays presented at this event
- The parents, teachers, and other adults who inspired the young people in various aspects of their projects
- The engineers, scientists, and mathematicians who volunteered their services to help students develop their research
- Faculty and administrative personnel who organized the school science fairs which give students their first opportunity to present their research to judges
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