

RoboRAVE International 2016の様子

平成28年5月5日（木）～7日（土）にかけて、今年もロボレーブアメリカ大会が行われました！

中国やメキシコ、コロンビア、フランスなど日本を含め世界13カ国から約600チーム・1700人が参加するなど、非常に盛況な大会でした！

競技はもちろん、恒例の交流パーティが行われるなど色々な体験を経て、子どもたちにとって非常に有意義な経験になったかと思います！

加賀市からは中学生2名、小学生5名の計7名・3チームが競技に参加し、馴染みのない環境であるにも関わらず練習の成果を出し切り、金明小学校のチームがミドルスクール部門のラインフォロイング競技で見事4位を勝ち取りました！Big up!

以下は大会や競技の様子です。少しでも雰囲気を感じていただければと思います！



Are You Our Twin?

| | | | |
|-----------|-----|---------|-----|
| D'Maria | 210 | Adriana | 812 |
| Dixie | 265 | | |
| Makenna | 389 | Daniel | 542 |
| Isaiah | 448 | | |
| Enrique | 459 | Eric | 862 |
| Miya | 428 | | |
| Alejandra | 166 | | |
| Estevan | 167 | | |
| Francisco | 623 | | |
| Alyssa | 399 | | |





"Today's Play, Tomorrow's Pay

May 5 - 7, 2016 "Robo"querque, New Mexico, US
"Robo"querque Convention Center, West Side & East Side
(aka Albuquerque Convention Center)

May 5th

8:00a to 5:00p - Team Check-In begins: **PRACTICE ONLY** - Open to the Public (**FREE ADMISSION**)

May 6th

8:00a to 5:00p: Teams **MUST** Check-In before 5:00p: **SCORING BEGINS** - Open to the Public (**TICKET Required**)

5:30p to 6:15p: **OPENING** Ceremony, Kiva Auditorium; Open to the Public (**TICKET Required**)

May 7th

7:45a to 8:00a: Opening Remarks, Kiva Auditorium; Open to the Public (**Ticket Required**)

8:00a to Noon: Team **SCORING ONLY** - Open to the public (**Ticket Required**)

1:00p - 2:30p: Top 8 teams, Single elimination tournaments (**FREE ADMISSION**)

3:00p to 4:30p: Awards Ceremony, Kiva Auditorium; Open to the Public (**FREE ADMISSION**)

[RoboRAVE International robotics education & competition](#) is a program of [Inquiry Facilitators, Inc.](#), a 501(c)3 enhancing science, technology, engineering, and mathematics education through academic competitions, support of student research, and teacher professional development.

RoboRAVE International

■ teams ■ players

Growth in Players & Teams from 2002-2015; with 2016 projections

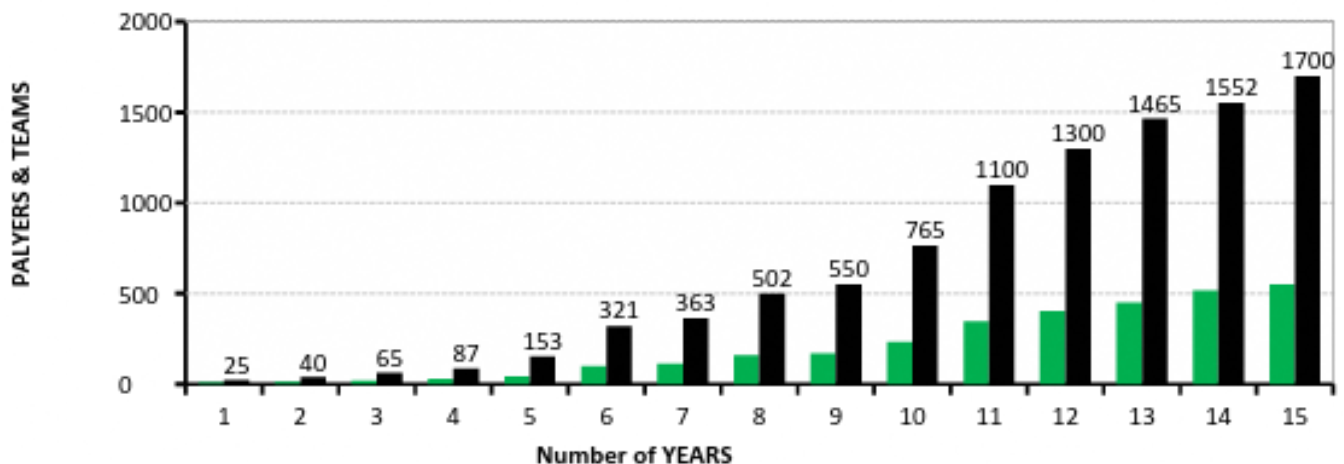


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OUR 2016 SPONSORS



If inc. inquiry facilitators
 Enhancing STEM education via academic competitions, teacher professional development, and supporting student research.



LOS ALAMOS
 National Security, LLC



NUTS AND VOLTS



PRESBYTERIAN
 Compassion is where healing happens. ❤️

SERVO
 MAGAZINE

And letters of support:

[Mayor Richard Berry,](#)
[City of Albuquerque](#)

CITY OF ALBUQUERQUE

Office of the Mayor/Chief Administrative Officer



May 1, 2016

Dear Friends,

As Albuquerque's Mayor and on behalf of the City, I am honored to host the RoboRAVE International in our city from May 5th thru May 7th, 2016.

RoboRAVE International originated in New Mexico, subsequently emerging into a competition in 2007 which became a program of Inquiry Facilitators Inc. The success of the program enticed other countries across the world to join in the competition. In May 2015 Albuquerque, aka *Roboquerque*, hosted the 14th annual RoboRAVE International competition.

While in Albuquerque, I hope you get the chance to explore our great city. Take in some of the sights and sounds that you may only encounter in a city as vibrant as ours. For a taste of our culture and history, the Indian and Hispanic Cultural Centers are great places to spend time. Old Town Albuquerque is a must see, where you can get a sampling of our southwest heritage. And don't forget to enjoy the great outdoors by visiting the Sandia Mountains or our Rio Grande River.

I am honored once again to host the RoboRAVE International competition. Immerse yourself in Albuquerque and enjoy your time here.

Best wishes to you all!

Best regards,

Richard J. Berry
Mayor

Albuquerque - Making History 1706-2006

[Raquel Reedy, Superintendent](#)
[Albuquerque Public Schools](#)



ALBUQUERQUE PUBLIC SCHOOLS
Office of the Superintendent

Raquel Reedy
SUPERINTENDENT

May 8, 2016

Dear RoboRAVE Competitors,

As Superintendent of Albuquerque Public Schools I want to take this opportunity to introduce myself and tell you how proud I am of each and every one of you for pursuing your interest in this international competition.

It's an honor for our city to host such a prestigious and cutting edge event. Those of us in education know we learn best when we're challenged and have fun discovering new skills. It seems the opportunities to learn through your experiences with RoboRAVE are endless in so many fields like aerospace, art, defense technology, fashion, medicine and on and on.

We know the world is rapidly changing and that we must meet that challenge by equipping our students with all the knowledge necessary for the jobs, vocations and careers ahead. The careers that continue to gain importance remain in the STEM, or science, technology, engineering and math categories. I think it's marvelous that there are organizations like RoboRAVE that create venues for bright, driven young people to pursue a passion like robotics and to make robotics accessible to any student, anywhere.

While not everyone will walk away with a monetary prize from this year's competition, I believe everyone who participates will benefit greatly from the experience. Hands-on learning is powerful as is team work, planning and all the lessons that come through trial and error.

Enjoy your visit and the event in Albuquerque. Thank you in advance for helping the rest of us navigate a path to an exciting future.

Sincerely,

Raquel Reedy
Acting Superintendent



29 April 2016

RoboRAVE International 2016 is HERE.

From May 2015, to today...we have been working hard to bring the quality and excitement that you have come to expect with our program.

And WOOOOWWWW, we have had changes this year in GREAT WAYS.

Germany. Slovakia. Nigeria. Zambia. Turkmenistan. Canada. France. Mexico (Jalisco), and the US - Texas, Colorado, California, and New Jersey.

HAVE JOINED the family. And we say, **WELCOME!**

And for those who are already participating?

China, Japan, Colombia, Czech Republic, Mexico (Juárez), and the US - have all grown significantly.

WHY? Fun while learning, Sharing, and Teamwork is our focus. High value, low cost, open robot platform, and multiple robot challenges.

WE SAY THANK YOU to ALL OF YOU. We are proud of your commitment, motivation, and passion to bring kids, around the world, more opportunity to play today, and earn the skills for the pay, tomorrow.

So in RoboRAVE International tradition....**1.....2.....3.....WOOOOWWWW!**

Our family to yours,

YOU make us proud...

Russ Fisher-Ives

Global Director/Co-Founder, RoboRAVE International
President/Founder, Inquiry Facilitators, Inc.

a BIG THANKS to all of our supporters, volunteers, team, Board of Directors, and family that make this event possible.

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|-----------------|--------------------|---------------|--------------|-------------|------------|---------------|--------------------|---------------|----------------|-------------|------------|-----------|-----------------|--------------|-------------|--------------|--------------|---------------|------------------|
| <p>Albuquerque Convention & Visitors Bureau Albuquerque Sister Cities Amy Tapia Ann Fisher-Ives Blackduck Printing Brad & Robin Goodwin Don Davis DoubleTree Hotel Dr. Kevin Wedeward Dr. Melanie Moses Dr. Philip Heermann Fabian Lopez Gary Oppedahl Governor Martinez Hyatt Regency Downtown Hotel Hyunju Blemel & her family Janelle Vigil-Maestas Joe Minafra Kimberly Williams Lindsey Gilbert Management Sciences Matt DiGregory & the Entire Range Café team Mayo Riku Miyamoto</p> | <p>Mayor Richard Berry Miguel Maestas Mohit Abraham Natasha Martell NM State Senator John Arthur Smith NM State Representative Jim Smith NM State Senator Gay Kernan Northern New Mexico College Oguljan Halliyeva Pablo Torres Pam Feather Papai Gomez Paul Garver Peter Blemel Richard Buckler Richard Romero Rikki Quintana Ron Eppes Ryan Grainger Steve & Angie Riemann Steve Gamble Sue Griffith Tony Ortiz</p> | | | | | | | | | | | | | | | | | | | | |
| <p style="text-align: center;">Inquiry Facilitators, Inc. Board of Directors Jon Price - Chair <i>(with Intel)</i> Jeanette Brahl - Secretary <i>(with United Way Central NM)</i> Curt McGill - Treasurer <i>(with Ricci & Co.)</i> Robert Grebe - Board Member <i>(with Traderz TV)</i> Cara Cress - Board Member <i>(with Cress Insurance)</i> Jeannie Reid - Board Member <i>(with Blackduck Printing)</i></p> | | | | | | | | | | | | | | | | | | | | | |
| <p>RoboRAVE Global Directors, <i>Where</i></p> <p>Shane Haggerty & Liza Montelongo, <i>Texas</i> JoEllen Kinnamon, <i>Arizona</i> Amy Henschen, <i>Colorado</i> Joey Agibati, <i>New Jersey</i> Scott Pursley, <i>Arkansas</i> Mauris DeSilva, <i>Minnesota</i> Chendra Girikipati, <i>California & India</i> Mao Yong, <i>Asia (China)</i> Fumihiko Inaki, <i>Japan</i> Aysenem Tuyliyeva, <i>Turkmenistan</i> Kingsley Imade, <i>Nigeria</i></p> | <p>Chris Zhang, <i>Canada</i> Vania Mora, <i>México</i> Francisco Castañeda, <i>Jalisco (Mexico)</i> Alejandro Martinez, <i>Latinoamérica</i> Patrick Mapalo & Martin Phiri, <i>Zambia</i> Juan José Ortega Perez, <i>Iberica (Spain)</i> Cyril Geslin, <i>Craon (France)</i> Babo Babakwanza, <i>France</i> Lars Möllendorf, <i>Germany</i> Beverly Belkova & Stanislav Medricky, <i>Czech Republic</i> Jozef Restvej, <i>Slovakia</i></p> | | | | | | | | | | | | | | | | | | | | |
| <p>RoboRAVE International team</p> <table border="0" style="width: 100%;"> <tr> <td>Amber Jaramillo</td> <td>Francisco Vargas</td> <td>Todd Peterson</td> <td>Insun Blemel</td> </tr> <tr> <td>Pam Feather</td> <td>Bill Moore</td> <td>Ryan Grainger</td> <td>Marcello Vanderwal</td> </tr> <tr> <td>Brian Montoya</td> <td>Derek Bohannan</td> <td>Papai Gomez</td> <td>Steve Reil</td> </tr> <tr> <td>Mark Winn</td> <td>Jesse Wilkinson</td> <td>Peter Blemel</td> <td>Anita Bruce</td> </tr> <tr> <td>Laura Werner</td> <td>Olga Vazquez</td> <td>Hyunju Blemel</td> <td>Russ Fisher-Ives</td> </tr> </table> | | Amber Jaramillo | Francisco Vargas | Todd Peterson | Insun Blemel | Pam Feather | Bill Moore | Ryan Grainger | Marcello Vanderwal | Brian Montoya | Derek Bohannan | Papai Gomez | Steve Reil | Mark Winn | Jesse Wilkinson | Peter Blemel | Anita Bruce | Laura Werner | Olga Vazquez | Hyunju Blemel | Russ Fisher-Ives |
| Amber Jaramillo | Francisco Vargas | Todd Peterson | Insun Blemel | | | | | | | | | | | | | | | | | | |
| Pam Feather | Bill Moore | Ryan Grainger | Marcello Vanderwal | | | | | | | | | | | | | | | | | | |
| Brian Montoya | Derek Bohannan | Papai Gomez | Steve Reil | | | | | | | | | | | | | | | | | | |
| Mark Winn | Jesse Wilkinson | Peter Blemel | Anita Bruce | | | | | | | | | | | | | | | | | | |
| Laura Werner | Olga Vazquez | Hyunju Blemel | Russ Fisher-Ives | | | | | | | | | | | | | | | | | | |

Opening Ceremony - May 6th, 5:30p - 6:15p,
KIVA Auditorium, Convention Center,
Upper Level

Agenda:

5:30p - Presentation of Flags
5:35p - National Anthem
5:40p - Open Remarks
**5:45p - Keynote Speaker, Kimberly Williams, NASA -
Ames Research Center**
**5:55p - UNM Global Education Outreach, Pablo
Torres**
5:58p - AAAI Balloon Museum, Paul Garver
6:00p - Global Program Overview
**6:05p - Colombia, Host of RoboRAVE International
2017, Alejandro Martinez**

Closing Ceremony - May 7th, 2:40p - 4:30p
KIVA Auditorium, Convention Center,
Upper Level

Agenda:

2:40p - HP raffle give-away prizes
3:00p - Mayor Berry, Albuquerque
3:05p - Dr. Melanie Moses, UNM CS Dept.
3:20p - Awards Begin
*Eng. reports, videos, Twin wall, a-MAZE-ing, Jousting,
Line Following, Triathlon, Fire Fighting, Alpine, Aerial,
Iq innovative, Robotovate - by divisions of ES, MS,
HS/BK*
4:20p - Closing Remarks
4:25p - Flags Go Home
4:30p - 5:30p - Awards & Photos - Ballroom B

Our OPENING Ceremony Keynote Speaker 2016

Kimberly Williams, Public Affairs Specialist, NASA Ames Research Center



With her BA in Broadcast Journalism from Lynchburg College, she now has over 17 years of experience supporting events and communications efforts. Kimberly has supported and managed public affairs projects in the commercial sector as well as creative, academia, government arenas, including facilitating congressional representatives and corporate executives. An accomplished global communicator with a proven track record designing and executing high-impact integrated communications programs, her expertise in public relations, television production, event management, and outreach has made her well-known her strategic and creative thinking in blending traditional and social media trends to build brand image. Kimberly's government experience in aerospace, technology, and engineering has gained the respect of many NASA executive officials. Kimberly has promoted a diverse portfolio to inspire the next generation of innovative thinkers, scientists, researchers, and game changers in technology advancement. Through this diverse coordination, Kimberly has come to understand the importance of building strong relationships. Her passion for advocating science, technology, engineering, mathematics (STEM) and the arts, has motivated a strong desire to inspire young girls to pursue STEM career fields. From facilitating media tours of NASA facilities for global VIPs, legislative constituents, and celebrity guests to managing the NASA's Speakers Bureau, she has played host as Mistress of Ceremonies (emcee) at NASA's wide variety of special events, award ceremonies, conferences, and special public events. Inspired to start her own company, Kimberly is Founder and President of Launch Media Enterprises, LLC, a woman-owned, minority small business that builds comprehensive, executable, and measurable public relations campaigns to help communicate start-up companies' goals and initiatives, in California's Silicon Valley. Originally from Virginia, Kimberly has called California home since 2007.

Presenters: Opening Ceremony

Pablo Torres



**Global Education Office, Associate Director
International Recruitment and Admissions
University of New Mexico**

As the Associate Director of The University of New Mexico's Office of International Admissions, Pablo Torres oversees the outreach and enrollment of International students to UNM. Originally from Belen, New Mexico, Pablo Torres received his BA in English from Santa Clara University in California and his MBA from New Mexico Highlands University. Pablo has been working in University Admissions and Recruitment for twelve years. He especially enjoys working with International students. Pablo is eager to connect with students from across the globe to assist them with achieving the opportunity of attending at a university in the United States.

Paul Garver



**Manager, AAI Balloon Museum,
City of Albuquerque**

Paul Garver, Manager of the Anderson Abruzzo Albuquerque International Balloon Museum since July, 2015, has over 30 years of experience in the museum profession. Born and raised in southern California, Paul began his museum career while attending California State University, Fullerton, where he graduated with a degree in Russian Area Studies and a minor in History. Paul went on to work for the Fullerton Museum Center as a program coordinator and later as Cultural Services Supervisor for the City of Chino, California, before moving to the Washington, D.C., to attend graduate school at Georgetown University. Paul continued his work in the museum field while living back east for 16 years, coming to serve as Assistant Director for the 18th-century site, Gadsby's Tavern Museum, and later as Director of Museum Services for the United States Holocaust Memorial Museum. He has lived in New Mexico since 2011, and resides in Rio Rancho

Presenters: Closing Ceremony



Mayor Berry, City of Albuquerque

Richard J. Berry is the twenty-ninth and current [Mayor of Albuquerque, New Mexico](#), and a former two term member of the [New Mexico House of Representatives](#). Berry was sworn into office on 1 December 2009, succeeding Democrat [Martin Chávez](#). Berry is the first Republican Mayor of Albuquerque in over 30 years.



Dr. Melanie Moses, Associate Professor, UNM Computer Science

I am an Associate Professor in [UNM Computer Science](#) with a secondary appointment in the [UNM Department of Biology](#) and am External Faculty of [The Santa Fe Institute](#). Professor Melanie Moses earned a B.S. from Stanford University in Symbolic Systems, an interdisciplinary program in cognition and computation, and a Ph.D. in Biology from the University of New Mexico in 2005. She is currently an Associate Professor in the Department of Computer Science at the University of New Mexico and External Faculty at the Santa Fe Institute. Her interdisciplinary research exists at the boundaries of

Computer Science and Biology with over 50 peer reviewed publications in computational and mathematical biology and biologically-inspired swarm robotics. Research in the Moses Lab focuses on computational modeling of complex biological systems, particularly on cooperative search strategies in immune systems and ant colonies. Her research also applies principles from biology to design computational systems, particularly robotic swarms that replicate ant behaviors to perform collective tasks. Her research lab includes 14 includes post docs, undergraduate and graduate students and high school interns from Computer Science and Biology. Professor Moses was the co-director of the NIH funded UNM Program in Interdisciplinary Biological and Biomedical Sciences 2013 - 2015, and directs the CSforAll course, an introductory programming course in computer modeling and simulation in which 400 New Mexico high school students have been introduced to computer science and earned dual credit at UNM. Professor Moses is the Principal Investigator for the NASA Swarmathon, a swarm robotics competition that aims to engage 1000 students from Minority Serving Institutions to develop new swarm robotic algorithms to revolutionize space exploration. She is honored to have been a Ford Foundation Dissertation Diversity Fellow and a Microsoft Research New Faculty Fellowship Finalist, and to have received the UNM Outstanding New Teacher of the Year Award and the School of Engineering New Faculty Awards for Excellence in Teaching and Research.

RoboRAVE events worldwide

2016

- May 27 - France, **CRAON**
- June 15 - México, **JALISCO**
- July 1 - **MÉXICO**, Juárez
- October 21 - **LATINOAMÉRICA**, Colombia, Medellín
- November 11 - **JAPAN**, Kaga
- November 15 - **SLOVAKIA**, Bratislava
- November 20 - **TURKMENISTAN**, Ashgabat
- November 25 - **GERMANY**, Lörrach
- December 11 - **CANADA**, Vancouver

2017

- January 15 - **NIGERIA**, Lagos
- February 15, **ASIA**, China, Beijing
- March 20 - **CZECH REPUBLIC**, Pardubice
- March 20 - **INDIGENOUS**, Arizona, Sacaton
- May 4 - **UNITED STATES**, New Mexico, Roboquerque
- June 9 - **AFRICA**, Zambia, Lusaka
- JUNE 15 - **RoboRAVE International 2017**, Colombia, Medellín

Convention Center MAP - What's Where?



| | | | |
|---|---|--|--|
| ES - Elementary School (grades 3-5) | MS - Middle School (grades 6-8) | HS - High School (grades 9-12) | BK - Big Kids (anyone beyond HS) |
|---|---|--|--|

Top Level Floor

| Robot Challenges | | Exhibitors - Vendors | Service |
|---|---|--|--|
| HS-BK Ballroom C, B a-MAZE-ing Line Following Alpinebot | MS-HS-BK Ballroom A Robotovate: The Entrepreneurial Challenge EVERYONE with a wristband gets to VOTE for the BEST PRODUCT | Robots Without Borders - Ballroom B LAHS FRC Team 4153 UNM Moses Biological Computation Lab Los Alamos National Labs | Food Bathrooms TWIN WALL KIVA Auditorium Opening and Closing Ceremonies |
| EAST SIDE - MS-HS-BK Hall 2 (access by Sky Bridge) Aerial Response | | Volo Peridi <div style="border: 2px solid red; padding: 5px; text-align: center;">This challenge area is restricted by policy of the convention center. An OBSERVATION LOUNGE is OPEN on the EAST SIDE of the convention center. Follow the signs.</div> | OBSERVATION ROOMS for Aerial Response Challenge PUBLIC IS NOT ALLOWED INTO THE AERIAL RESPONSE AREA ONLY Aerial Response Track Monitors, RoboRAVE Core Team, and teams competing in this challenge who are BADGED will be permitted |

Mid Level (Ground) Floor

| Robot Challenges | | Exhibitors - Vendors | Service |
|---|--|--|--|
| MS HALL NW a-MAZE-ing Jousting Line Following Triathlon Alpinebot | ES HALL SW a-MAZE-ing Jousting Line Following Alpinebot | Fair Trade Vendors Colombia - Host of RoboRAVE International 2017 China - Host of RoboRAVE International 2019 AAAI Ballroom Museum ABQ Convention & Visitors Bureau Info Table Explora Science Showdown Menaul School | Check-in (TICKETS) ATM Bathrooms (in Hall 3 and 4) SECURITY Store |

Lower Level Floor

| Robot Challenges | Exhibitors - Vendors | Service |
|--|---|-------------------------------------|
| MS-HS-BK Center Floor | NM Tech University Hewlett Packard Clúster Robótica | Convention Center Service Center |

| | | |
|---------------|-----------|-----------|
| Fire Fighting | Mini Sumo | Bathrooms |
|---------------|-----------|-----------|

Robot Challenges -

New 2016 - Robotovate: The Entrepreneurial Challenge

NOTE: Everyone with a wristband gets one (1) vote for their favorite **ENTREPRENEURIAL CHALLENGE** robotic product. What is a robot? We are defining ANY PRODUCT that uses INPUT, PROCESSING, & OUTPUT as robotic. The teams must pitch to you their product to convince you their product has value. IF you agree, THEN vote for them. BUT PLEASE VOTE! Ballroom A. **Voting is open FRIDAY, May 6th, 8:00a to 5:00p AND SATURDAY, May 7th, 8:00a to NOON.**

Description - Division(s) - Tournament (YES, NO) - Track Layout

| Robot Challenge Name | Brief Description; Key Rules | Divisions (Ages) open to play | Tournament on Saturday @ 1:00p | Track Layout |
|------------------------|--|-------------------------------|--------------------------------|--|
| a-MAZE-ing | Autonomous; 3 min. limit Complete the track in the shortest time; If a wheel touches floor, or the robot is touched by player, the run is over | ES, MS, HS | NO | Raised wood tracks |
| Jousting | Autonomous; Limit - 5 passes TO knock off the other knight; must use line following program; | ES, MS | YES | Line following, 2 lines, 2.5cm wide |
| Line Following | Autonomous; 3 min. limit Must follow the line to tower, deliver at least 1 ball; return home; then deliver as many ping pong balls in time left | ES, MS, HS, BK | YES | Line following to tower and back; ES line 1.3cm wide MS line 1.3cm wide HS/BK line 0.7cm wide |
| Triathlon | Autonomous; Teams compete in a-MAZE-ing, Jousting, and Line Following with one (1) robot that can be modified for each challenge | MS | NO | a-MAZE-ing, Jousting, Line Following tracks |
| Alpinebot | Autonomous; 3 min. limit Climb a 60 degree slope and place their flag in or near the circle | ES, MS, HS | NO | 60 degree incline |
| Aerial Response | Remote Control; 3 min. limit; Fly the NM obstacle course; from NW - SW - SE -NE to Rio Grande Valley down to Roboquerque; deliver y chile if possible | MS, HS, BK | NO | NM obstacle course |
| Fire Fighting | Autonomous; 3 min. limit Find and extinguish 4 candles without touching them. Touching the candle as you approach, during extinguishing, or leaving the candle - 50% penalty; Touch the robot at anytime ends your run | MS, HS, BK | YES | 4 candles, 3 hidden |

| | | | | |
|--|---|------------|-----------|--|
| Robotovate: The Entrepreneurial Challenge | Pitch your robotic product to earn votes. All ticketed attendees have one (1) vote to cast | MS, HS, BK | NO | New or modified robotic products being pitched |
|--|---|------------|-----------|--|

Who's Here? Vendors, Exhibitors, Universities, US States, Countries, Schools, Groups...

| | |
|--|--|
| <p>AMAVET - Czech Republic (Pardubice) AMAVET - Slovakia (Bratislava) Anderson-Abruzzo Albuquerque International Balloon Museum Canada Youth Robotics (Vancouver) CIRASTI (France) City of Albuquerque Clúster Robótica (Guadalajara) Countries: US + Canada, China, Colombia, Czech Republic, France, Germany, Japan, Mexico, Nigeria, Slovakia, Spain, Zambia, Edurobótica (Juárez) El Paso STEM Foundation (Texas) Explora (Albuquerque) Fair Trade Vendors - HoonArts, International Folk Art Alliance, Baskets of Africa Hewlett-Packard (Rio Rancho) ITCCC (Beijing) City of Kaga, Japan</p> | <p>Learning Center (Nigeria) Lehrbeauftragter IT/Robotik (Germany) Los Alamos National Labs Manual School (Albuquerque) Milset (France) Minerva Learning (California) NM Tech University NASA AMES Research Labs (California) National Nuclear Science and History Museum (Albuquerque) PITSCO (Kansas) Pygmalion (Colombia) Robótica Badajoz (Spain) Robots Without Borders (Albuquerque) Sandia National Labs San Luis Valley 4-H Colorado State Extension (Colorado) University of New Mexico - Global Education Office US States: New Mexico, California, Arizona, Texas, Colorado, Arkansas</p> |
|--|--|

Fast Facts about RoboRAVE International & Inquiry Facilitators, Inc.

Number of Countries: **14** (*new this year: Turkmenistan, Canada, Germany, Slovakia, Nigeria*)

Number of US States: **6** (*new this year: CA, AR*)

Number of Teams: **557**

Number of Participants: **1700**

Cost to participate: **\$50 - \$100 per team**

Robot Challenges: **8** (*new this year: Alpinebot*)

RoboRAVE International: Philosophy, Goals, Academy, & History:

Philosophy:

"Today's Play, Tomorrow's Pay" is our philosophy for engaging kids, of all ages, to increase their opportunities to gain skills, knowledge, and contacts that can help them pursue careers in 21st century professions.

Goals:

- **FUN while LEARNING** (*because if they don't have fun, they're not coming back*)
- **SHARING** - *ideas, equipment, programs, emails, experiences, etc.*

- **TEAMWORK** - *when we all work together, the outcome is far more beneficial for all, then having just a few winners.*

3rd Annual Robot Academy: a Professional Development Conference

May 4 - 8, 2016 @ Hyatt Regency Downtown Hotel

Conference fee: \$300 / team - Sponsor: Intel New Mexico

Purpose: To design a plan to start/expand robotics in their community by attending a 4 day, 30 hour hands-on robot playshop programming and testing their robots plus interacting with the RoboRAVE International community for ideas and suggestions.

Brief History: from 2001 to now...

RoboRAVE was started with 25 HS students in 2001 by Fabian Lopez (CNM), Chris Bandy (RRHS), and Russ Fisher-Ives (RRHS). Originally called the NM RoboRAVE, the three educators started it after 2 years competing in FIRST Robot Challenge (FRC). Intel was our founding sponsor allowing us to run two competitions per year (2001-2007) in New Mexico; one in north (winter), and one in the south (spring) for with free registration & admission. As the event grew organically through the schools by word of mouth, our numbers forced us to leave the school gyms behind and move to the Albuquerque Convention Center (2008). The name changed (2007) to RoboRAVE International to reflect our other participating country, México (2003). RoboRAVE International became part of the STEM programs (2007) managed by Inquiry Facilitators, a non-profit promoting STEM education (est. 2002). Through Russ' international connections established through the Intel International Science and Engineering Fair, new countries began to join. This international growth allows us to offer NM students the opportunity to MEET, GREET, & COMPETE with the world...at home. For us, that's a big 1, 2, 3, ...WOOOOOWWWWW. (it's a RoboRAVE thing! :) We are an open-source event and will share with any passionate educational evangelist how to start a program in your community! Just talk with rUSs.

Before Event Points:

Teams can earn optional points, BEFORE the event by submitting one or more of the following items.

- Engineering Summaries (ES), Overviews (MS), or Reports (HS, BK)
- Videos
- Corporate Partnerships Letters and Logos

For more information on each of these - visit: <http://roboquerque.org/resources/>

These points are used to place teams INTO the tournaments but they are NOT used in tournament play.

Programs of Inquiry Facilitators, Inc.

American Youth Robotics Challenge - for more information, [click here](#)

A monthly program for your group to start playing in robot challenges. Starting September 1st, 2016 - your group can participate in a monthly LINE FOLLOWING Challenge by submitting your best team's fastest time to run a line to a cup and deliver a single ping pong ball. The track will change monthly but awards will be made to the best ES, MS, and HS team.

Cost: \$199 - but it's on **SALE NOW** for **ONLY \$99**

The program contains 5 robot activities:

- a-MAZE-ing Challenge (modified track)
- Bump & avoid (ultrasonic activity)

- Jousting Challenge (just like @ RoboRAVE International)
- Line Following Challenge (modified - MONTHLY competition with awards)
- Iq Innovative Robot Challenge (an annual competition)
- **Need robots for your program? We can help...**

Summer Robot & Rocketry Camps - for more information, [click here](#)

3...2...1...BLAST OFF; questions: email us ... 321Blastoff@gotoif.org

[Application link](#)

These camps are perfect for kids, ages 10 to adults. Camp offerings are for New Mexico beginning June 6 and running through August 12th.

5 days long; Morning sessions - Robots OR Rocketry; Afternoon sessions - both sessions are repeated so a camper can do both by attending all day.

Session times: AM - 8a - Noon; PM - 12:30p - 4:30p

Parents; get a little R & R this summer by giving your kids A LOT of R & R!!!

Lighter than Air Vehicle Challenge 2017

Keep your eyes looking UP!!!

The AAAI Balloon Museum and Inquiry Facilitators, Inc. are going to open up the LAV Challenge mid-Summer for any team, any age, anywhere to participate.

You will NOT HAVE to be present but your video must BE HERE!!

Three different tasks depending on age. But that you'll have to wait for until mid-summer.

Challenge will be held at the AAAI Balloon Museum mid Spring, 2017.

[TEAM, COACH, & COMMUNITY information link - PLAYING TODAY](#)

[CORPORATE PARTNERS](#): those who submitted letters on behalf of teams

[VOLUNTEER Link](#): the companies they represent

And BIG THANK YOU to...



GOODWIN | **LAW OFFICE**

RIO RANCHO PERSONAL INJURY LAWYER

Phone Number:

(505) 340-2223

Rio Rancho Office:

1201 Rio Rancho Blvd. SE, Suite D

Rio Rancho, NM 87124



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Phone Number

Fax Number

6101 Moon Street NE 1000

Albuquerque, NM 87111

[Location Map & Driving Directions](#) - [Office Hours](#)



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SANTA FE TITLE



See you in Medellín, Colombia for RoboRAVE International 2017

For more information:

Email - amartinez@pygmalion.com.co

June 2017

“Hoy Jugando. Mañana Ganando”