

Texas Math & Science Coaches Association

A knight to remember

Bourell honored at CIRP Conference

Blown away.

Those are the words Dr. David Bourell, professor emeritus at The University of Texas at Austin, used to describe his reaction to being named a Knight of Laser Technology at the 13th CIRP Conference on Photonic Technologies in Furth, Germany on Sept. 16.

"The notification came as a complete surprise," Bourell said. "I have worked with lasers as a tool in additive manufacturing for over 30 years, but I really wouldn't consider myself to be a laser expert."

The award recognizes the international career accomplishments in areas related to laser technology. Bourell is the 11th Knight since the inauguration of the award in 1997. His contributions are in the area of additive manufacturing, specifically laser sinter of metals, ceramics

and polymers. He was the first person to use additive manufacturing (AM) to create a fully metal part in 1990, which is now a mainstay of the technology. He holds 14 patents, most dealing with materials innovations in Laser Sintering, an additive manufacturing process.

More honors ahead

Bourell has been a member of the Minerals, Metals, and Materials Society for over 40 years.

"I've been involved at many levels, from symposium organizer and committee member through a three-year rotation on the Society Board of Directors" he said. "I am a Fellow of the 14,000-member Society, and by rule, there can be no more than 100 TMS Fellows at any point in time. In March of next year in Las Vegas, I will be honored at a TMS symposium organized in my name."



Dr. Reinhart Poprawe, Managing Director of the Fraunhofer Institute for Laser Technology, knights Dr. David Bourell at the CIRP Conference in Germany Sept. 16. Poprawe was the previous winner of this Knights Award.

ASTM International is a group that creates standards largely for industrial

Continued on page 7

Elementary State Online Meet results announced

NS NUMBER SENSE 1A-4A Number Sense 5th Grade

Sawyer Heathcott, Ozona [189]; Aidan McMillan, Travis TAG [167]; Feraas Danuser, Williams TAG [144]; Lincoln Morrow, Ozona [123]; Philip Orrick, Travis TAG [121]; Hunter Li, Williams TAG [115]; Faith Nowell, Ozona [112]; Michael Furmaga, Travis TAG [100]; Tyler Ferdinandsen, Ponder [95]; Mark Lega, Travis TAG [91].

4th Grade

Cole Schlund, Travis TAG [181]; Holden Goedrich, Ozona [154]; Vincent Ayala, Ozona [139]; April Shaffer, Ozona [104]; Nico Fullingim, Ozona [87]; Nautica Brown-Clark, Rice [76-T]; Kendall Smiley, Rice [76-T]; Giselle

Gonzalez, Richardson [67-T]; Hannah McCallum, Travis TAG [67-T]; Mackenzie McGuire, Ozona [66].

3rd Grade

Julissa Chambers, Rice [20]; Raegan Bosman, Rice [11-T]; Elijah Brown, Rice [11-T]; Kaia Drones, Rice [11-T]; Justice Livingston, Rice [11-T]; Morgan McCullar, Rice [11-T]; Morgan Roberts, Rice [11-T]; Jaxon Washington, Rice [11-T]; K'Lani Adair-McGilvery, Rice [2-T]; Marlie Jenkins-Dawson, Rice [2-T]; Kourtney Rivers, Rice [2-T]; Kali Warren, Rice [2-T].

5A Number Sense

5th Grade

Randy Rodriguez, Botello PI [127]; Bridget Salazar, Pine Tree [126]; Edward Gonzalez, Botello PI [123-T]; Wil-

la Shore, Pine Tree [123-T]; Ava Vaught, Pine Tree [118]; Nefertiry Munoz, Botello PI [117]; Janet Camacho, Botello PI [113]; Nathan Anguiano, Botello PI [104-T]; Pablo Heilbron, Walnut Hill [104-T]; William Chhay, Hillcrest [96].

4th Grade

Sawyer Mauck, Mockingbird [105]; Mateo Jimenez-Guixeras, Mockingbird [96]; Mia Jimenez-Guixeras, Mockingbird [79]; Andrew Klein, Mockingbird [72]; Ulises Serrato, Mata [57]; Reese Lockard, Kramer [55]; Anton Otubu, Kramer [50]; Somkeneze Akalefy, Kramer [46]; Jay Gomez, Gill [41-T]; Josue Ramirez, Gill [41-T]; Harlynn Saba, Kramer [41-T]; Liam Santamaria, Cuellar [41-T].

Continued on page 3

2024-2025 TMSCA Executive Board

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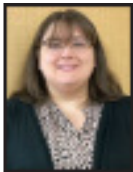
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Board meets in June

Call to order: The meeting was called to order at 8:45 a.m. by President Josh Newton.

Action Item: Sheri Woodall was hired as Bookkeeper and Webmaster for TMSCA.

High School Director Report - Tim Orsak

• 88 schools and 960 students were in attendance at the 2024 High School State Meet.

• Separate senior testing rooms at State were discussed, and it was suggested that senior testing rooms not be separated by classification

Middle School Director Report - Ernesto Rivera

• 161 eligible schools were in attendance.

• More hall monitors are needed upstairs.

• It was suggested that we use Remind 101 or a similar app for future State Meets to improve communication in case of any emergency notifications.

Treasurer - Sheri Woodall

Board members were given the budget to review. Sheri reported the budget looks good at this point.

Executive Director Report - Julie Majewski-Smith

• Reported that 184 high schools 203 middle schools/elementaries have memberships.

• Executive Director was given permission to offer starter/introductory packages to whole districts an incentive to promote entire district participation.

• Dallas ISD summary - Total 105 schools (17 HS, 32 MS, 8 NS/EL and 48 EL). DISD purchases each school

practice materials, pays for schools to attend the state and local invitational meets. DISD also offers a district-wide coaches training and three DISD-only invitational meets for their coaches all facilitated by TMSCA personnel.

• TMSCA will attend both days of vendor show at Capital Conference.

State Meets Coordinator Report - Joan Naylor

• State meet camera shots will be re-organized to ensure better accuracy and ease of transferring pictures to the newspaper format.

• Medals/trophies distribution will be re-organized so that duplicate award mailing will be expedited.

• Classifications need to be reminded that each school must provide graders in the grading room.

UIL Liaison Report - Cliff McCurdy

• Reported that the UIL writers for all appropriate tests are set.

• Legislative Council meeting - classification concerns for Magnet Schools will probably be on the agenda, especially for academics. TMSCA will adhere to any rule or classification changes made at that time.

Action Item: Calendar -

Board reviewed and approved the 24-25 calendar with High School State Meet on March 15 and Middle School State Meet on March 29. The alternate date for both meets would be March 22.

Action Item: Budget - The Board reviewed and approved 24-25 budget as pre-

Continued on page 5

2024 EL State Online Meet results continued

Continued from page 1

3rd Grade

Robert Behrendt, Mockingbird [68]; Amani Waldrup, Mata [57]; Sebastian Masek, Mockingbird [49]; Henry Meyrat, Mockingbird [42]; Samuel Hartsell, Kramer [41]; Neylin Perez, Titche [34-T]; Eleanor Scott, Mockingbird [34-T]; Desyre Harris, Titche [33]; Lena Schlomer, Mockingbird [27]; Stephanie Barron, Titche [25-T]; Alan Gomez, Titche [25-T].

6A Number Sense

5th Grade

Vansh Koka, Cornerstone [373]; Medhansh Burra, Basis SA [319]; Apollo Chen, Commonwealth [305]; Rajpreet Biswas, Commonwealth [292]; Hanming Zhang, Commonwealth [242]; Yichen Wu, Cornerstone [223]; Daniel Lim, Alexander [188]; Amelia Zheng, Cornerstone [185]; Rishank Daram, Commonwealth [183]; Alycia Wang, Alexander [182].

4th Grade

Eli Livingston, Dealey Montessori [272]; Corwin Han, Cornerstone [186]; Alexander Chen, Commonwealth [184]; Henry Xue, Commonwealth [169]; Bryan Huang, Commonwealth [162-T]; Shruti Sinha, Odessa Kilpatrick [162-T]; Roosha Chatterjee, Alexander [160-T]; Shreya Mallick, Hassler [160-T]; Shaurya Narsareddygar, Commonwealth [157]; Aditya Padaothi, Commonwealth [153].

3rd Grade

Aiden D'Souza, Odessa Kilpatrick [137]; Derek Xue, Alexander [67]; Karina Luo, Cornerstone [53]; Dhiaan Chhaya, Cornerstone [48];

Lorenzo Montemar, Basis SA [44]; Akhila Katipally, Basis SA [43]; Joseph Gomes, Hassler [41-T]; Yuvik Goyal, Hassler [41-T]; Aya Abazid, Basis SA [31]; Andy Zhang, Hassler [25].

CA CALCULATOR 1A-4A Calculator 5th Grade

Sawyer Heathcott, Ozona [220.04]; Jude Fierro, Ozona [193.02]; Faith Nowell, Ozona [184.01]; Brady Fierro, Ozona [175.05]; Lincoln Morrow, Ozona [163.03]; Aidan McMillan, Travis TAG [160.05]; Obalolawa Ojo, Big Spring [149.02]; Philip Orrick, Travis TAG [130.02]; Declan Steinert, Muenster [116]; CJ McCallum, Travis TAG [109.03].

4th Grade

Vincent Ayala, Ozona [126.01]; Holden Goedrich, Ozona [108.03]; Celine Wang, Travis TAG [100.04]; Nico Fullingim, Ozona [98.03]; April Shaffer, Ozona [98.01]; Mackenzie McGuire, Ozona [96.01]; Cole Schlund, Travis [94.03]; Hannah McCallum, Travis TAG [50-T]; Nathan Taft, Travis TAG [50-T]; Nina Bronner, Dallas Hybrid Prep [46-T]; Caleb Taylor, Dallas Hybrid Prep [46-T].

5A Calculator

5th Grade

Clara Walker, Pine Tree [175.03]; Stephanie Storms, Pine Tree [141]; William Chhay, Hillcrest [134]; Willa Shore, Pine Tree [127]; Emma Orrick, Mockingbird [116]; Bridget Salazar, Pine Tree [111]; Maranda Crabtree, Pine Tree [109]; Tia Buford, Pine Tree [100-T]; Juan Pineda, Bo-

tello Pl [100-T]; Aria Arnett, Pine Tree [77].

4th Grade

Mia Jimenez-Guixeras, Mockingbird [143]; Mateo Jimenez-Guixeras, Mockingbird [110]; Andrew Klein, Mockingbird [89-T]; Sawyer Mauck, Mockingbird [89-T]; James Bruckart, Mockingbird [77]; Dylan Lam, Gill [73-T]; Damaris, Mena, Gill [73-T]; Josue Ramirez, Gill [72]; Murphy Ramos, Cuellar [60]; Reid Bocell, Mockingbird [59].

3rd Grade

Lena Schlomer, Mockingbird [73]; Sebastian Masek, Mockingbird [70]; Henry Meyrat, Mockingbird [58]; Ariana Mendoza, Gill [54]; Robert Behrendt, Mockingbird [49]; Zoey Cuardos, Kramer [41]; Sarahi Ramirez, Gill [37]; Jessica Rodriguez, Gill [34]; Ryan Eastman, Mockingbird [32]; Elena Ocura, Gill [32]; Eleanor Scott, Mockingbird [32].

6A Calculator

5th Grade

Vansh Koka, Cornerstone [355]; Patrick Huang, Alexander [332.15]; Olumuyiwa Ayeni, Alexander [313.16]; Medhansh Burra, Basis SA [306]; Daniel Lim, Alexander [277.12]; Amelia Zheng, Cornerstone [253]; Alycia Wang, Alexander [220.12]; Drake Sun, Cornerstone [212]; Davin Song, Cornerstone [191]; Hanming Zhang, Commonwealth [190].

4th Grade

Eli Livingston, Dealey Montessori [263]; Shreya Mallick, Hassler [217.13]; Bryan Huang, Commonwealth [165]; Roosha Chatterjee, Alexander [162.06]; Henry Xue, Commonwealth [154]; Saarth Prasad, Cornerstone [149];

Grayson Huynh, Hassler [129]; Shresth Agrawal, Commonwealth [127-T]; Shaurya Narsareddygar, Commonwealth [127-T]; Pragun Malhotra, Cornerstone [110].

3rd Grade

Yuvik Goyal, Hassler [134.03]; Aiden D'Souza, Odessa Kilpatrick [114.06]; Andy Zhang, Hassler [82.03]; Lorenzo Montemar, Basis SA [43]; Sahaana Brunswick, Basis SA [42]; Derek Xue, Alexander [35.01]; Joseph Gomes, Hassler [22.01]; Karina Luo, Cornerstone [0]; Harper Hanson, Basis SA [-2].

MA MATH 1A-4A Mathematics 5th Grade

Aidan McMillan, Travis TAG [169]; Feraas Danuser, Williams TAG [148]; Philip Orrick, Travis TAG [139]; Sawyer Heathcott, Ozona [128]; Michael Furmaga, Travis TAG [120]; Mark Lega, Travis TAG [115]; Lincoln Morrow, Ozona [108]; CJ McCallum, Travis TAG [102]; Miles Do, Williams TAG [94]; Brynn Cannon, Williams TAG [92].

4th Grade

Vincent Ayala, Ozona [85]; Holden Goedrich, Ozona [77]; Nathan Taft, Travis TAG [71]; August Olson, Williams TAG [65]; Giselle Gonzalez, Richardson [65]; April Shaffer, Ozona [62]; Selvin Maldonado, Rice [59]; Charles Olson, Williams TAG [54]; Hannah McCallum, Travis TAG [53]; MacKenzie McGuire, Ozona [51].

3rd Grade

Elijah Brown, Rice [16]; Justice Livingston, Rice [16]; Morgan Roberts, Rice [15];

Continued on page 4

Elementary meet results continued

Continued from page 3

Kourtney Rivers, Rice [14]; Kaia Drones, Rice [10-T]; Morgan McCullar, Rice [10-T]; K'Lani Adair-McGilvery, Rice [8-T]; Raegan Bosman, Rice [8-T]; Marlie Jenkins-Dawson, Rice [8-T]; Jaxon Washington, Rice [8-T].

5A Mathematics

5th Grade

Christian Naverrete, Walnut Hill [178]; Pablo Heilbron, Walnut Hill [168]; Saul Lopez, Walnut Hill [161-T]; Aldahir Santos, Walnut Hill [161-T]; Edson Palacio, Walnut Hill [136]; Willa Shore, Pine Tree [113]; Iker Ibarra, Botello Pl [105]; Joel Zapata, Walnut Hill [104]; Will Carl, Mockingbird [95-T]; Ava Vaught, Pine Tree [95-T].

4th Grade

Josimar Rodriguez, Walnut Hill [116]; Mia Jimenez-Guixeras, Mockingbird [75]; Reid Bocell, Mockingbird [74]; Sawyer Mauck, Mockingbird [65]; James Bruckart, Mockingbird [63-T]; Adrian Cordova, Gill [63-T]; Dylan Lam, Gill [61]; Ricky Ramirez, Titche [55]; Eliza Cano, Titche [50]; Nancy Hernandez, Marsalis El STEAM Academy [48].

3rd Grade

John Gilligan, Mata [61]; Robert Behrendt Mockingbird [60]; Amani Waldrup, Mata [50]; Neylin Perez, Titche [44]; Ava Burns, Walnut Hill [44]; Desyre Harris, Titche [35]; Iker Valdez, Titche [30]; Sebastian Masek, Mockingbird [28]; Diana Martinez, Titche [26]; Kaylee Dimas, Cuellar [26].

6A Mathematics

5th Grade

Apollo Chen, Commonwealth [236-T]; Alycia Wang, Alexander [236-T]; Yichen Wu, Cornerstone [236-T]; Vansh Koka, Cornerstone [229]; Olumuyiwa Ayeni, Alexander [222-T]; Drake Sun, Cornerstone [222-T]; Medhansh Burra, Basis SA [215]; Rishank Dararam, Commonwealth [208-T]; Chelsea He, Commonwealth [208-T]; Codey Huang, Basis SA [208-T]; Rishaan Misra, Commonwealth [208-T]; Louie Xia, Alexander [208-T]; Hanming Zhang, Commonwealth [208-T]; Amelia Zheng, Cornerstone [208-T].

4th Grade

Henry Xue, Commonwealth [222]; Eli Livingston, Dealey Montessori [214]; Alexander Chen, Commonwealth [207]; Shaurya Narsareddygar, Commonwealth [200]; Shreya Mallick, Hassler [198]; Bryan Huang, Commonwealth [185]; Corwin Han, Cornerstone [178]; Kassie Gao, Holland [177]; Roosha Chatterjee, Alexander [166]; Soham Joshi, Commonwealth [166].

3rd Grade

Aiden D'Souza, Odessa Kilpatrick [127]; Karina Luo, Cornerstone [70]; Satvik Penmatsha, Basis SA [67]; Yuvik Goyal, Hassler [67]; Lorenzo Montemar, Basis SA [55]; Derek Xue, Alexander [53]; Dhiaan Chhaya, Cornerstone [36]; Pranith Akula, Basis SA [36]; Andy Zhang, Hassler [34]; Sahaana Brunswick, Basis SA [33].



SCIENCE

1A-4A

Science

5th Grade

Philip Orrick, Travis TAG [193]; Luke Foy, Smith [189]; Thomas Furmaga, Travis TAG [187]; Michael Furmaga, Travis TAG [181]; Declan Steinert, Muenster [173]; Zackary Dixon, Travis TAG [172]; Canon Lindenmeyer, Travis TAG [172]; Tanner Howe, Smith [156]; Miles Do, Williams TAG [151]; Travis Hill, Smith [151].

4th Grade

Sebastian Wright, Williams TAG [168]; Aarna Attaluri, Williams TAG [161]; Paulina Kucej, Williams TAG [152-T]; Owen Sanford, Williams TAG [152-T]; Hannah McCallum, Travis TAG [148]; Cole Schlund, Travis TAG [144]; Tristan Herring, Travis TAG [141]; Nathan Taft, Travis TAG [135]; August Olson, Williams TAG [135]; Charles Olson, Williams TAG [117].

5A Science

5th Grade

Amazyah Waldrup, Mata [143]; Gavin Archundia, Pine Tree [125]; Willa Shore, Pine Tree [124]; Clara Walker, Pine Tree [124]; Sebastian Berber, Cuellar [117]; Lucia Rodriguez, Kramer [115]; William Chhay, Hillcrest [110]; Maranda

Crabtree, Pine Tree [107]; Daniel Hernandez, Cuellar [103]; Stephanie Storms, Pine Tree [101].

4th Grade

Mateo Jimenez-Guixeras, Mockingbird [190]; Dylan Lam, Gill [116]; Andrew Klein, Mockingbird [113]; Rebecca Garcia, Adams [113]; Liam Santamaria, Cuellar [96]; Aaren Merani Hillcrest [89]; Camila Camacho, Adams [85-T]; Josue Gomez, Adams [85-T]; Samuel Suarez, Adams [85-T]; Murphy Ramos, Cuellar [82].

3rd Grade

Amani Waldrup, Mata [119]; Ryan Eastman, Mockingbird [96]; Silas Kitchens, Kramer [78]; John Gilligan, Mata [78]; Isaac Villarruel, Gill [51]; Ariana Mendoza, Gill [45]; Jason Guerra, Gill [42]; Arielle Smith, Kramer [37]; Neylin Perez, Titche [35]; Juan Barajas, Cuellar [33-T]; Kaylee Dimas, Cuellar [33-T].

6A Science

5th Grade

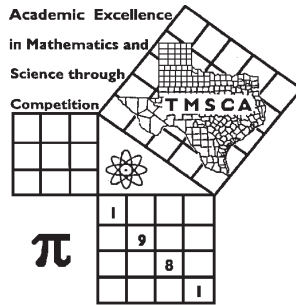
Abdul Mirza, Basis SA [229]; Medhansh Burra, Basis SA [222]; Amelia Zheng, Cornerstone [215]; Suvas Bandi, Basis SA [208]; Alycia Wang, Alexander [201]; Chelsea He, Commonwealth [196]; Joseph Choi, Alexander [194-T]; Ethan Han, Alexander [194-T]; Sai Nanda, Basis SA [194-T]; Jingshuo Wang, Commonwealth [194-T].

4th Grade

Alexander Chen, Commonwealth [196]; Pragun Malhotra, Cornerstone [194]; Henry Xue, Commonwealth [172]; Azarias Michael, Dealey Montessori [171]; Roosha Chatterjee, Alexander [170]; Soham Joshi, Commonwealth [166]; Sebastian Chang, Basis SA [159]; Bryan Huang, Commonwealth [154]; Timothy Derry, Basis SA [152-T]; Addison Hunnicutt, Basis SA [152-T].

3rd Grade

Derek Xue, Alexander [140]; Aiden D'Souza, Odessa Kilpatrick [140]; Karina Luo, Cornerstone [117-T]; Lorenzo Montemar, Basis SA [117-T]; Pranith Akula, Basis SA [91]; Harper Hanson, Basis SA [73]; Sahaana Brunswick, Basis SA [73]; Nihal Katikitala, Basis SA [73]; Aadhith Ganeshkumar, Basis SA [66]; Thakshin Dural, Basis SA [64].



2025 UIL District Warm-Up Tests ORDER FORM

Test set consists of four tests (ns/ca/ma/sc) written for the specific purpose of preparing students for uil district/regional and state competitions featuring tests written by Dr. David Bourell, Larry White and Cliff McCurdy.

School: _____

School District: _____

School Coach: _____

Email Address: _____

(required for delivery of material)

Check the box to order test set - \$50

Payment Method: Check # _____ Purchase Order # _____

Form must be fully completed for processing purposes.

Form can be:

Scanned/Emailed (preferred) to execectmsca@gmail.com

Ffaxed to: 940-563-1006

Mailed to: TMSCA, P.O. Box 206, Olney, TX 76374

If your district requires a purchaase order number, P.O. # must be included on the form.

Tests will be delivered via shared folder on Google drive beginning

3/7/25

TMSCA USE ONLY:

INVOICE #: _____ - _____

TMSCA Executive Board members meet June 24

Continued from page 2
sented with one amendment, an increase for equipment replacement.

Action Item: Test Pool Cost – Increases to HS and MS test pool fees from \$50/event to \$55/event were approved to offset test writer salary increases approved in March.

Action Item: High School State Meet Entry Fees – Board approved the increase of the High School State meet entry fee to \$10 per event to maintain the scholarships at their current level.

Action Item: Policy update for using TMSCA program at invitational meets – The Board approved the requirement that schools using the TMSCA program for a meet must have a current membership and must follow the requirement

that only TMSCA member schools may participate, i.e. there is no individual participation.

Action Item: Policy update about school coach for TMSCA membership – The Board approved a requirement that the primary coach listed on the form to be a school employee for membership in TMSCA even if the actual team is run by parent(s)/ volunteer(s). This will help ensure that the school has given permission to use the school's name when entering TMSCA events.

Action Item: Requests for use of TMSCA materials – The Board reviewed two requests for use of TMSCA materials, and at this time both requests were denied. TMSCA materials are copyrighted.

2024 scholarship winners choose their universities

2024 scholarship winners are attending the following schools:

Baylor University	1
Brigham Young Univ-Idaho	1
Carnegie Mellon Univ	1
Duke University	1
Harvard University	1
LeTourneau Univ	1
MIT	3
Princeton University	1
Rose Hulman Inst. of Tech	1
Texas A&M University	5
Texas Tech	1
University of North Texas	1
Univ of Texas-Arlington	1
Univ of Texas-Austin	7
Univ of Texas-Tyler	1
Univ of Wisconsin-Madison	1

A synopsis of TMSCA's 4 contests

Number Sense

Number Sense involves a 10-minute, 80-question mental math test covering all high school mathematics courses. Shortcuts need to be developed and practiced in order to compete and finish the test.

Science

This contest challenges students to do a wide range of reading in biology, chemistry and physics, to gain an understanding of the significance of experiments rather than to recall details, to be alert to

new discoveries and information in the areas of science, to gain an understanding of the basic principles as well as knowledge of the history and philosophy of science, and to foster a sense of enthusiasm about how science affects our lives.

Calculator Applications

This contest includes calculations involving addition, subtraction, multiplication, division, roots, powers, exponential, logarithms, trigonometric functions and inverse trigonometric functions. In addition to straightforward calculation

problems, the contest includes geometric and stated problems similar to those found in algebra, geometry and trigonometry textbooks, previous contests and League materials related to the contest.

Mathematics

This contest is designed to test knowledge and understanding in the areas of algebra I and algebra II, geometry, trigonometry, math analysis, analytic geometry, pre-calculus and elementary calculus.

Bourell recognized at international conference

Continued from page 1

use. Bourell was instrumental in starting this process.

"In 2008, I was part of a group of about 15 people who met at ASTM headquarters in West Conshohocken, Pennsylvania," he said. "We organized a 'constitutional convention' at the same location in January 2009, attended by about 100 stakeholders. At that meeting, the ASTM F42 Committee on Additive Manufacturing was formed. I've served for about 10 years on the Terminology Subcommittee International."

Staying involved

When Bourell retired from UT two years ago after serving 43 years on the faculty, he was given emeritus status. He has no official duties with the university but keeps busy with a few other professional activities. For over 20 years, he has been a member of the Materials and Metallurgy Professional Engineering Exam Committee with an organization called the NCEES.

"Basically, engineers in the US can become registered professionally," he said. "It's somewhat like CPAs in accounting or doctors. There is a series of tests that applicants take. One such test is advanced and discipline-specific. The one dealing with materials and metallurgy has a national committee of about 30 people who actually create exam problems and the exam itself. This is the committee that I belong to. I've been through the officer rotation of this committee several times over the years."

Calculator testing

Bourell began working with TMSCA in the early 1980s. He writes four Calculator Applications tests for TMSCA every year. One of these is used for the State Meet.

"I also provide TMSCA with test tops," he said. "These are the number crunch problems that are relatively straight forward for me to generate, but they are rather tedious for others to create."

The UIL Calculator Applications test was created in 1981 by John Cogdell, a professor in the Electrical and Computing Engineering Department at The University of Texas at Austin.

"The contest was an outgrowth of the



Bourell speaks to the CIRP Conference after being knighted.

old Slide Rule Contest," Bourell said. "Back in those days, there were nine student activities conferences in the fall. John was rather overwhelmed with so much travel, so he invited me to join, in part to split up the travel."

Bourell went to his first event, a student activities conference in Victoria in 1981, then attended the State Meet in the Spring of 1982. He officially started as a Contest Co-Director in September of 1982.

"I worked with John until about 1995, when he retired both from the University and the Contest," he said. "I am pretty sure that now, after 42 years, I am the longest serving UIL state director. I may be the longest serving person in the UIL."

Former UIL Academics Director Bobby Hawthorne said Bourell never complained about the travel or the little pay.

"You have to remember that he was being flown back and forth to Europe to work on bridge projects. He was paid handsomely to do it, and he was paid little or nothing to direct the calculator contest," Hawthorne said. "He's remained in this position for three decades because he believes in the kids who compete and the men and women who coach those kids. I have been fortunate to know him as a colleague, a friend and a fan."

Knight time: More honors for Bourell

2024

Dubbed a "Knight of Laser Technology" at the Laser Assisted Net Engineering (LANE) Conference, Fürth, Germany

2023

Recipient of the ASTM AM Center of Excellence Advanced Manufacturing Lifetime Achievement Award

2022

Recipient ASTM Frank W. Reinhart Award for "outstanding and unusual contributions to the organization in the realm of terminology standardization"

2022

Recipient, Lifetime Achievement Award, Singapore University of Science and Technology, August 2022

2017

Recipient, Albert Sargent Award, Society of Manufacturing Engineers

2011

Recipient of the International Freeform and Additive Manufacturing Excellence (FAME) Award

1997

Fellow of ASM International

1991-92

Alexander von Humboldt Research Fellowship to Max-Planck-Institut für Metallforschung Pulvermetallurgisches Laboratorium, Stuttgart, Germany

1986

Recipient of the ASM International Bradley Stoughton Award for Outstanding Young Teachers of Metallurgy

TMSCA 24-25 CALENDAR (6/1/24)

AUGUST '24						
S	M	T	W	Th	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

FEBRUARY '25						
S	M	T	W	Th	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	

- 1 MS 9 / HS 9
- 7-8 UIL B Release
- 8 MS 10
- 15 MS11 / HS 10
- 17 Presidents' Day
- 22 MS 12 (Q1) / HS 11

SEPTEMBER '24						
S	M	T	W	Th	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

- 2 Labor Day
- 7 SAC - Tyler JC, Tyler
- 14 SAC- LS College, Houston
- 14 Kick-Off Reg. opens
- 28 Kick-Off Reg. ends
- 30 Kick-Off Testing Opens

MARCH '25						
S	M	T	W	Th	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

- 1 MS13 (Q2) / HS 12
- 1 Tune-Up Reg. opens
- 8 MS REG / HS 13
- 15 **TMSCA HS State ***
- 16 Tune-Up Reg. ends
- 16 Tune-Up testing opens
- 25-29 HS UIL District
- 27 Tune-Up testing ends
- 29 **MS State Meet***

OCTOBER '24						
S	M	T	W	Th	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

- 5 SAC - Tech (Lubbock)
- 14 Columbus Day
- 16 Kick-Off Testing Closes
- 19 MS1 / HS1
- 21 EL Online Reg. opens
- 26 MS2 / HS2
- 31 Halloween

APRIL '25						
S	M	T	W	Th	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

- 3/31 EL Online State reg
- 5 ACT Testing -UTSA
- 5-7 NCAA Final Four
- 12 UTSA Day
- 12 EL-OL Reg ends
- 14 EL-OL testing begins
- 20 Easter Sunday
- 25 - 26 HS UIL Regional
- 28 EL-OL testing ends

NOVEMBER '24						
S	M	T	W	Th	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

- 2 MS3 / HS3
- 2 SAC - UT Austin
- 8 EL Online Reg. ends
- 9 MS4 / HS4
- 11 EL Testing opens
- 11 Gear-Up Reg. opens
- 16 MS5 / HS5
- 28 Thanksgiving Day

MAY '25						
S	M	T	W	Th	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

- 11 Mother's Day
- 19-21 UIL State
- 26 Memorial's Day

DECEMBER '24						
S	M	T	W	Th	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

- 6 EL Online testing closes
- 6 Gear-Up Reg. closes
- 7 MS6 / HS6
- 9 Gear-Up Testing opens
- 25 Christmas Day

JUNE '25						
S	M	T	W	Th	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

- 15 Father's Day

JANUARY '25						
S	M	T	W	Th	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

- 1 New Year's Day
- 10 Gear-Up testing ends
- 10-11 UIL A Release
- 18 MS 7 / HS 7
- 20 M.L. King Day
- 25 MS 8 / HS 8

JULY '25						
S	M	T	W	Th	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

- 4 Independence Day

*** STATE MEET DATES
PENDING UTSA
APPROVAL**

2024-25 Texas Math & Science Coaches Association Membership

Print or type all information. Email membership form to: execsectmsca@gmail.com or mail to TMSCA, PO Box 206, Olney, TX 76374-0206 or fax 940-563-1006.

() School \$50 (pays for four members) () Associate \$15 () Retired, complimentary N/C

If mailing your membership include either a check or a PO number; if emailing or completing an online membership form, enter PO _____

You must designate a PRIMARY CONTACT.

This is the person responsible for maintaining school information in the on-line database and registering students for TMSCA meets through the on-line system.

In addition, duties include receiving email invoices and directing them to appropriate source for payment.

*** Indicates information required for processing membership.** Email address will be published in the TMSCA directory, but phone numbers remain confidential.

*PRIMARY CONTACT 1 _____ *Contact Phone _____ *Email _____

Additional Coach 2 _____ *ContactPhone _____ *Email _____

Additional Coach 3 _____ *ContactPhone _____ *Email _____

Additional Coach 4 _____ *Contact Phone _____ *Email _____

*School Name _____ * **School District** _____ *School Phone _____

*School Address _____ *School City _____ *Zip _____ *Fax _____

* Fill in: UIL Classification (1A, 2A, 3A, 4A, 5A, 6A) _____ * UIL Region (I, II, III, IV) _____ UIL District Number _____ OR Non-UIL School _____

Grade Level(s) on your campus: _____ For coaches of junior high/elementary schools, fill in the information on the line below:

***HIGH SCHOOL YOUR STUDENTS SHOULD ATTEND ACCORDING TO YOUR DISTRICT FEEDER PLAN :** _____

(The above information required to determine the classification of your MS/EL school)

Memberships valid from July 1 through June 30 annually. Renewal for the new year must be submitted by 11/30 of each year for continuous membership.

FOR OFFICE USE ONLY – School Tag: _____

Order Method: ___ Email ___ Fax ___ Mail Delivery Method of Membership Cards: ___ USPS ___ Email

Date of Delivery: _____ Processed By: _____ Invoiced to: _____ Date: _____

INVOICE #: _____

2024-2025 TMSCA Subscription Order Form

Prices valid through June 30, 2025. Test series that are not listed on this order form are available through the TMSCA State office. Orders for tournament tests should be received by the State office two weeks prior to meet. Tournament tests delivered electronically 7-10 days prior to your meet. **VALID EMAIL ADDRESS REQUIRED FOR DELIVERY.**

TMSCA CONTACT INFO: P.O. BOX 206, OLNEY, TX 76374; PHONE: 940.563.1005; FAX: 940.563.1006; EMAIL: execsectmsca@gmail.com

MEMBERSHIP BY SCHOOL CAMPUS REQUIRED FOR ALL SERVICES FROM TMSCA

<p>PART A HIGH SCHOOL PRACTICE MATERIAL</p> <p>NUMBER SENSE</p> <table border="0" style="width: 100%;"> <tr> <th style="text-align: left;">Test/Pack</th> <th style="text-align: left;">Cost/Pack</th> <th style="text-align: left;">Amount</th> </tr> <tr> <td>(1) TMSCA 19-20 Series</td> <td>14 \$35</td> <td>\$ _____</td> </tr> <tr> <td>(2) TMSCA 20-21 Series</td> <td>14 \$40</td> <td>\$ _____</td> </tr> <tr> <td>(3) TMSCA 21-22 Series</td> <td>14 \$40</td> <td>\$ _____</td> </tr> <tr> <td>(4) TMSCA 22-23 Series</td> <td>14 \$50</td> <td>\$ _____</td> </tr> <tr> <td>(5) TMSCA 23-24 Series</td> <td>14 \$50</td> <td>\$ _____</td> </tr> <tr> <td>(6) TMSCA 24-25 Series</td> <td>14 \$55</td> <td>\$ _____</td> </tr> </table> <p>CALCULATOR</p> <table border="0" style="width: 100%;"> <tr> <th style="text-align: left;">Test/Pack</th> <th style="text-align: left;">Cost/Pack</th> <th style="text-align: left;">Amount</th> </tr> <tr> <td>(7) TMSCA 19-20 Series</td> <td>14 \$35</td> <td>\$ _____</td> 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(28) TMSCA Package (21-22)	\$50	\$ _____																																																																																																																																																																																																																				
(29) TMSCA Package (22-23)	\$50	\$ _____																																																																																																																																																																																																																				
(30) TMSCA Package (23-24)	\$50	\$ _____																																																																																																																																																																																																																				
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(32) TMSCA 19-20 Series	15 \$35	\$ _____																																																																																																																																																																																																																				
(33) TMSCA 20-21 Series	15 \$40	\$ _____																																																																																																																																																																																																																				
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(55) TMSCA 24-25 Series	15 \$55	\$ _____																																																																																																																																																																																																																				
(56) HS Number Sense Test	\$60	\$ _____																																																																																																																																																																																																																				
(57) HS Calculator Test	\$60	\$ _____																																																																																																																																																																																																																				
(58) HS Mathematics Test	\$60	\$ _____																																																																																																																																																																																																																				
(59) HS Science Test	\$60	\$ _____																																																																																																																																																																																																																				
(60) MS Number Sense Test	\$60	\$ _____																																																																																																																																																																																																																				
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(63) MS Science Test	\$60	\$ _____																																																																																																																																																																																																																				

FOR OFFICE USE ONLY		
TP LINK _____	COPY/BOOK _____	WEBMASTER _____
TT LINK _____	INVOICED _____	DELIVERED _____

NOTE ON DELIVERY METHODS:

All tournament tests are delivered electronically. 24-25 practice materials are posted weekly to a shared folder on Google Drive. All other listed practice materials delivered electronically. Prior years available in hard copy/digital by request.

DELIVERY INFORMATION: (Please print)		
School Name: _____	District: _____	CITY: _____
Sponsor's Name: _____	Email: _____	
PAYMENT INFO: School Check #: _____	P.O.#: _____	Personal Check#: _____

TO ADVERTISE YOUR MEET ON THE TMSCA WEBSITE, EMAIL COMPLETED COPY OF YOUR ORDER FORM TO:

tmscanews4u@gmail.com

DO NOT USE THIS EMAIL TO PLACE YOUR ORDER. THIS WILL DELAY PROCESSING OF YOUR ORDER.