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national STEM contest

DETROIT

Holly Fournier, The Detroit News Published 9:58 p.m. ET May 29, 2017 | Updated 10:04 a.m. ET May 30, 2017 **View Comments**

Detroit students make mark in

Detroit — Alia Cummings huddled over a tangle of metal and wires, carefully unscrewing a tiny computer chip from a half-finished robot in a high school classroom.

engineering and mathematics, or STEM.

"It's like surgery," said the 16-year-old, flashing a quick smile before transferring the machine's "brain" to an adjacent project on the table. Several other girls stood ready with tools of their own.

of 20 students in recent weeks built a sophisticated robot and programmed an app geared toward environmental conservation. Six team members this month took their projects to Houston for the National C-STEM Challenge, which attracted nearly 1,000 students with projects reflecting the fields of science, technology,

Cummings is a sophomore at Detroit Edison Public School Academy, where a team



Flowers, who hosted the Houston competition through her initiative <u>C-STEM</u> Teacher and Student Support Services. "If we don't start early enough to close those achievement gaps, then you've got a lot of untapped individuals who aren't

able to contribute in this economic space." Narrowing the gap

between African-American and white students by making STEM programs more

Flowers said she created C-STEM in 2002 to help close the achievement gap

accessible to underserved students. Around 90 percent of the students in the

program are minorities and around 40,000 students will participate this year in C-STEM-sponsored activities at their schools.



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Meanwhile, the demand for STEM workers by 2022 is expected to outpace the

number of individuals with related degrees by around 1 million, according to

That leaves room in the workforce for a diverse set of students with varying

interests and skill sets, said Tonya Matthews, president and CEO of the Michigan

Science Center. The science center has an initiative called the STEMinista Project,

which engages girls in the fourth through eighth grades to increase their interest

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government data.

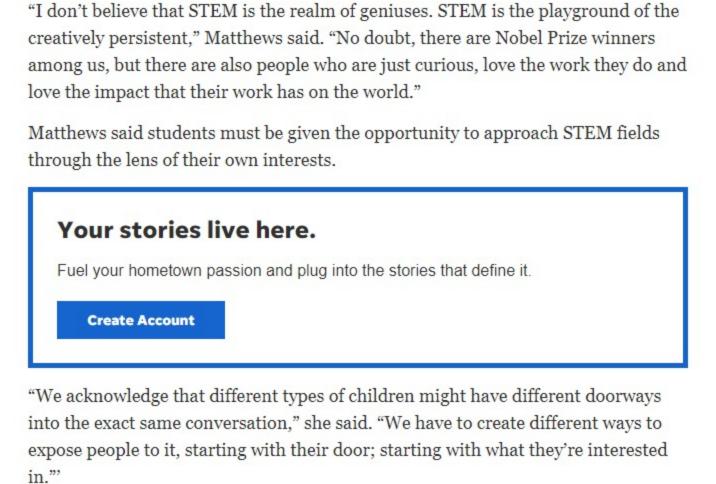
and skills with STEM experiences.

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Dr. Reagan Flowers, (left) CEO, CTEM teacher & student support services and Dominic Held, physics teacher and robotics

coach, they are seen going over the C-Stem documents. Clarence Tabb Jr. / The Detroit News



Flowers often integrates the arts into her program to attract students who aren't

naturally drawn to the sciences, she said. This year, students in Houston could

compete in a sculpture category by creating sea turtles but had to use a device

"Then I've got to have an engineering report. I've got to know how they designed

this thing," Flowers said of the competition rules. "They're doing STEM but they're

Cummings and her classmates at Detroit Edison created the robot and app for the

C-STEM competition as members of after-school robotics and programming clubs.

Their trip to Houston was sponsored by RushCard, a prepaid debit card company

Detroit Edison seniors Jakobi Tooks and Tanai Dawson, both 17, won a combined

\$600 in scholarships at the competition, according to organizers. Sophomore Jaylen Austin, 15, helped design the team's app and also took second place in a

called Makey Makey to transform their artwork into a musical instrument.

not looking at it as STEM. They're looking at it as art."

The 'underdog mindset'

coding challenge in Houston.

Austin said.

come to reality."

Each student was presented a "very long"

piece of broken code and asked to fix

computer programming skills to start a

turned out very well. Everything just

business creating websites. "And the app

turned out the way it should, and that's a big relief when you get to see something

what they could within 30 minutes,

"We don't value (STEM education) enough," Simmons told The News. "We need to encourage children as much as we can to take part in it, especially in these underserved communities. We ought to make it fun and accessible."

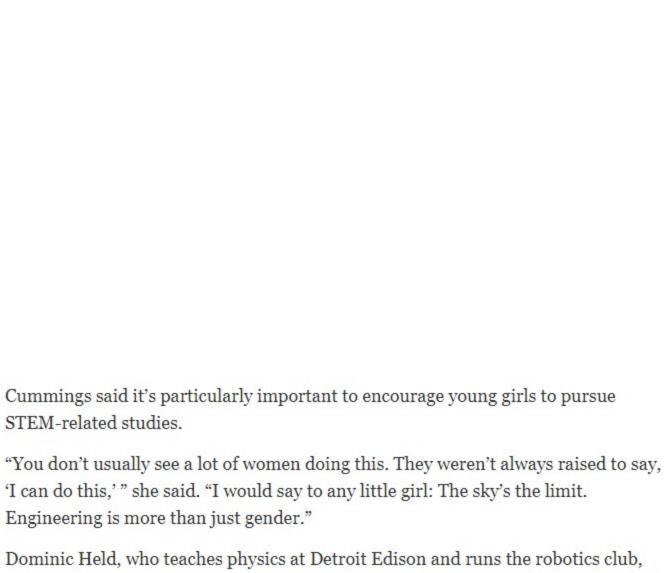
co-founded entrepreneur and hip-hop mogul Russell Simmons.

"At first, I was kind of nervous but after looking at the code I had to fix, it turned out pretty well. I understood most of it," said Austin, who wants to use his

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said the charter school has actively recruited female students to "buck the trend" of

STEM-related studies.



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Jakobi Tooks, 17, a senior, he is seen testing the vex robot, the robot is used for transporting objects.

male-dominated STEM fields. "We already have that underdog mindset (in Detroit) so (the girls) are used to that," he said. "Our girls are just as valuable as the boys."

Engineering is more than just gender."

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