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EDUCATIONAL OPPORTUNITIES FOR STUDENTS, TEACHERS AND GUESTS

YOU! The Experience features engaging programs for students and teachers and Museum guests that are provided by our Center for the Advancement of Science Education. Whether you're a guest making the *Giant Heart* come alive with your pulse, a student exploring medical careers and technologies in the ER/OR Learning Lab, or a teacher trying a classroom lesson about digestion in a professional development workshop, everything you do in *YOU! The Experience* is designed to meet today's learning needs. In addition, each of the more than 50 interactive experiences is consistent with Illinois and national learning standards in science, providing students with educational experiences that are directly linked to what they're learning in the classroom.

Programs for School Groups

Our Learning Labs are facilitated by Museum educators for school groups visiting on field trips.

- **ER/OR Lab** – Students explore medical careers and cutting-edge medical technologies. Activities include taking the vital signs of iStan®, the Human Patient Simulator, before, during and after an asthma attack; suturing with real surgical tools; practicing virtual surgery; and reading x-rays of broken bones.
- **Heart Surgery 101** – Using a recorded broadcast of open heart surgery, students learn about heart health, handle real surgical tools and explore medical careers. This is a version of our popular *Live ... from the Heart* program.
- **Life Begins** – Students receive an overview of human reproduction, fetal development and the birth process in this program provided in partnership with the Robert Crown Center for Health Education.
- **Live ... from the Heart** – Students watch via videoconference a live, open-heart surgery procedure happening at Advocate Christ Medical Center in Oak Lawn. Students talk to the surgical team as they perform the surgery, ask questions about the procedure, get tips on keeping their heart healthy, and find out about the variety of medical careers that exist.

Programs for Teachers

Our Institute for Quality Science Teaching offers workshops for middle-grades teachers that provide science content and teaching strategies aligned with classroom curriculum. Our year-long workshop series provide teachers with lesson plans, all the materials they need to replicate activities in their classrooms, and a class field trip that includes funding for buses and a Learning Lab.

- **All About You** – This new workshop series highlights health and wellness with lessons that explore cells, body systems, genetics, evolution, digestion and exercise. Teachers meet six times throughout the school year and have the opportunity to earn up to six graduate credits from a partner university.

Programs for Museum Guests

Every day, Museum guests are invited to take part in a variety of free live science experiences.

- **MSI Hospital** – Guests get to be the doctor in this unique experience featuring iStan, our Human Patient Simulator. Learn how to take iStan's vital signs, then put your skills to the test as you try to diagnose his medical problems.

- **Dissect an Eye at MSI** – Learn about vision and how the eye works by dissecting a cow’s eyeball.
- **Poop Happens** – Guests are invited onstage to become part of the action in this funny play about the digestion process. Learn how your body breaks down food to get the nutrients it needs as you follow food from the mouth to the stomach ... and beyond!
- **Facilitated experiences** – At various times throughout the day, Museum staff will lead discussions and deeper explorations of some of the exhibit’s key features. At the *Giant Heart*, guests will be led in blood-pumping and calming activities to demonstrate how the heart rate is affected. Learn more about exercise during a facilitated session at the *Hamster Wheel*, or watch how aromatherapy influences relaxation at *Mindball*.

Online Components

On the Museum’s Web site, at www.msichicago.org/you, guests, students and teachers will find additional opportunities to learn more about the exhibit—and ways to explore the exhibit’s principles on their own, at home, through interactive activities, polls, videos and experiments. They can explore the “100 Things” goals set by other Museum guests and find out how they rank against other guests on the Food Tally. The *Make Room for Baby* interactive video display will also be found online, showing how both mother and baby adapt during the fetal development process.

Mini-quizzes and polls are peppered throughout the site, and one of the first at-home “how-to” activities will show kids or teachers how to try echolocation (using sound waves to determine an object’s location) in their living room or classroom. Additional interactive content and resources will be added to the *YOU!* section on a regular basis for guests to extend their Museum experience.

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