

# BODIES

## THE EXHIBITION



Field Trip Packet



# lafayette choir

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Dear Choir Parents and Students:

We are very excited to offer our choir students a unique learning experience in the coming weeks. The fascinating traveling exhibit BODIES REVEALED has come to the Lexington Center Museum. We have planned what is sure to be an outstanding field trip to view this exhibit. We will be partnering with Dr. Noemi Lugo, professor of voice and vocal pedagogy at UK School of Music who will serve as our guide through this exhibit. Dr. Lugo is an expert on the vocal mechanism, respiratory system and total body physical processes as related to the singer. This partnership will provide a unique and tailored look at the total body as instrument when viewed through the lens of a singer/performer.

As a parent, we want you to be educated about the exhibit and all that it entails. The exhibit displays real human bodies and organs that have been preserved and dissected to present a view of the human body unlike any other. From first-hand experience, I can attest to the high-quality and professionalism of the exhibit which focuses on scientific education.

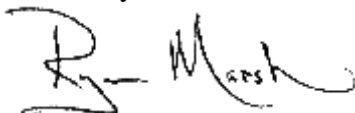
*Bodies Revealed exposes the secrets of the human body in unprecedented detail normally reserved for medical professionals. Visitors of all ages can look deep inside the carefully preserved specimens, learn about human anatomy and see the effects that disease and unhealthy lifestyles have on the body.*

*The human body specimens in the exhibition are preserved through a revolutionary technique called polymer preservation. In this process, human tissue is permanently preserved using liquid silicone rubber that is treated and hardened. The end result is a rubberized specimen, preserved to the cellular level, showcasing the complexity of the body's many bones, muscles, nerves, blood vessels and organs. The full-body specimens can take more than a year to prepare.*

Please familiarize yourself with the exhibit through the provided documents and online resources and decide whether this is an opportunity that is appropriate for your student. Students will not see all sections of the exhibit. Please contact Mr. Marsh or Mrs. Howard with any questions you may have.

The trip will be on Monday November 14. The cost of the trip is \$6.00 for admission to the exhibit (prepaid, cash or checks made payable to Lafayette Chorus Boosters). Students will also need money for lunch in the Lexington Center food court prior to returning to school. Transportation is being funded through choir fees. We also need chaperones! (Chaperones will receive a free ticket to the exhibit.)

Sincerely,

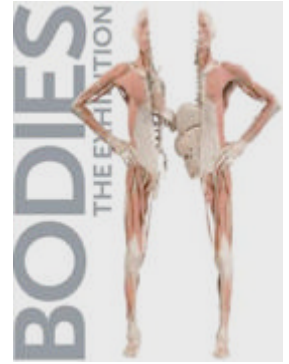


Ryan Marsh

More info at [www.bodieslexington.com](http://www.bodieslexington.com)



# Student Release Form



## Trip Permission Form

**Return by:** Nov 9, 2011

Student Name: \_\_\_\_\_

Destination/Location: Lexington Center

Purpose of Trip: Bodies Revealed Exhibit

Trip Date: 11/14/11 Departure Time: 10:00 Estimated Return Time: 1:40

Trip Sponsor(s): Marsh/Howard

Transportation Mode: FCPS School Bus

**----- PARENT/GUARDIAN: PLEASE FILL OUT BOTTOM PORTION -----**

**Circle: YES NO** Does the student have a condition that requires an Emergency Medical Protocol?

**Circle: YES NO** Is an Emergency Medical Protocol on file at the school?

**Circle: YES NO** Does the student require daily medication that is normally given at school?



I, \_\_\_\_\_, parent/legal guardian of \_\_\_\_\_ have read the accompanying material regarding the Bodies Exhibit and grant permission to my student to attend BODIES REVEALED with the Lafayette Choir.

I, \_\_\_\_\_, parent/legal guardian of \_\_\_\_\_ hereby grant permission to Fayette County Public Schools to transport my child to the activities listed above. I acknowledge the activity schedule as listed above, the destination(s), date(s), and departing time(s) from school. The return to school will be immediately after the activity has concluded. I hereby authorize the staff of Lafayette High School or authorized chaperones to obtain medical care for my child in the event of an emergency. I agree to be responsible for any resulting medical fees.

I acknowledge and understand the mode of transportation as noted above. By signing this form I am acknowledging and agreeing to the mode of transportation to be used and other conditions herein. I do further certify that I am of full legal capacity to execute this authorization.

Parent/Guardian Signature \_\_\_\_\_ Date: \_\_\_\_\_

Your signature verifies that your child has your permission to go on the field trip mentioned above.

# BODIES

THE EXHIBITION

## Frequently Asked Questions

### What is the purpose of this exhibition?

**A:** Until now, only medical students and practitioners were provided the opportunity to view the inner workings of anatomy and physiology as part of their education, research and practice. **BODIES...The Exhibition** allows the general public to have a similar viewpoint. Seeing the body in this way is a profound experience that may inspire some to adopt a healthier lifestyle; it may inspire others to seek a career in a health-related field.

### What facets of the human body does the exhibit focus on?

**A:** **BODIES...The Exhibition** provides a closer look at the skeletal, muscular, nervous, respiratory, digestive, urinary, reproductive, endocrine and circulatory systems. It showcases both anatomy and physiology of the human body as well as some of the body's more common ailments. **BODIES** addresses various diseases, including cancer, Parkinson's and Alzheimer's, as well as the methods for disease prevention and the advances of modern medicine. Additionally, **BODIES** focuses on various prosthetic replacements and the specialized tools used to monitor and gain access to the body.

### How does BODIES...The Exhibition highlight specific organs?

**A:** **BODIES...The Exhibition** uses a systematic approach to educating visitors about the human body, beginning with the familiar structure of the skeletal system and then progressing to those that are more complex. In this approach, every relevant organ in the specific system is included, helping an individual to understand the organs' existing interrelationships.

### Are individual systems of the body displayed or is it just whole bodies?

**A:** Both individual systems of the body and whole specimens are displayed.

The Exhibition is divided into galleries that educate the visitor on the following systems: skeletal, muscular, nervous, circulatory, respiratory, digestive, reproductive, embryonic and fetal development. There also is a gallery on modern medicine. Each gallery contains one or more specially dissected bodies that highlight a specific system, as well as individual cases dedicated to displaying the most important organs that make up that system.

### What health issues are highlighted in the Exhibition?

**A:** **BODIES...The Exhibition** empowers individuals with knowledge of their bodies, ultimately increasing understanding on how to steward one's own health. The Exhibition enables them to see and understand the medical conditions friends and family members face in a new way – by highlighting health concerns including smoking, obesity, breast cancer, colon cancer, cirrhosis of the liver, ectopic pregnancy, arthritis, osteoporosis and bone fractures. Additionally, the Exhibition also highlights the damage done to organs due to the perils of smoking and dietary excesses.

### Why use real human specimens instead of constructed models?

**A:** Dr. Roy Glover, the chief medical director for **BODIES...The Exhibition**, Professor Emeritus and former head of the University of Michigan's Plastination Laboratory, discovered in his more than 30 years of teaching anatomy that, "Seeing promotes understanding and understanding promotes the most practical kind of body education possible. The body doesn't lie!"

Unlike models that idealize the body through the eyes of an artist, the specimens in this exhibition show the body and its parts the way they really are. For many years idealized models have been used for anatomical instruction. However these models don't allow for any variation in structure, which is instrumental in understanding the body's makeup and the distinctive differences of each individual.

## **THE POLYMER PRESERVATION PROCESS**

### **How are the bodies preserved?**

**A:** The process of polymer preservation is used so that the bodies and organs can be viewed without any chance of deterioration due to natural decay. In this process, tissue water is first removed by submersion in acetone. This acetone is then removed in a vacuum chamber. Spaces that were once filled with acetone are then filled with liquid silicone rubber that is treated and hardened. The end result is a rubberized specimen, preserved to the cellular level, showcasing the complexity of the body's many bones, muscles, nerves, blood vessels and organs.

### **How long does it take to dissect and permanently preserve each specimen?**

**A:** Preparation time varies; a small organ may take a week, while an entire body may take up to one year.

### **How long do the bodies last after polymer preservation?**

**A:** The earliest specimens were prepared in the late 1970s and are still used in medical schools around the world. Each polymer-preserved specimen exists indefinitely just as if they were made of the most indestructible material.

### **How many bodies and organs are in the exhibit?**

**A:** There are approximately 15 dissected full bodies and more than 200 additional organs and specimens in the Exhibition.

### **Where do the specimens come from?**

**A:** All of the specimens in this Exhibition were obtained through the Dalian Medical University plastination laboratories in the People's Republic of China. China has a large and highly competent group of anatomists and dissectors, who are essential to properly preparing these specimens for exhibition and educational purposes.

### **Will we know who the body specimens are? How did they die?**

**A:** The identity and the cause of death of the anatomical specimens are never revealed to the public. Law requires that only the initial authorized recipient -- Dalian Medical University -- have this information, and it may not be disclosed to any third party. Premier Exhibitions obtained the bodies from Dalian Medical University, which has established itself as a leader in the process of plastination. Dalian is an internationally recognized medical university that is governed by the World Health Organization.

Dalian Medical University and Premier Exhibitions are required to keep accurate records of the bodies' whereabouts at all times, and when the purpose of the anatomical specimens use is completed, they must be returned to Dalian and cremated.

Each specimen is selected to illustrate a function or a system. In some cases the Exhibition states the result of the specimen's death, but only when the cause is medically related and further educates the viewer. For example, in the respiratory gallery the lung of a specimen who died due to emphysema is displayed with further discussion on the disease and the perils of smoking.

### **Is the Exhibition respectful to the deceased?**

**A: BODIES...The Exhibition** has the highest respect for each of the displayed specimens. It is understood that some viewers may have religious concerns and disagree with aspects of the Exhibition. However, those who attend will observe that the Exhibition focuses on scientific education and that each specimen is treated with dignity and reverence.

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