DropTES
Nitinol and Medical devices

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1. How did you get to know about the opportunity?

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UNOOSA Website

UNITED NATIONS
Office for Outer Space Affairs

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Our Work > Programme on Space Applications > Human Space Technology Initiative (HSTI) > Ground-based Experiments > DropTES

Fellowship Programme for "Drop Tower Experiment Series" (DropTES)

STAY TUNED FOR THE NEXT ROUND OF APPLICATIONS!

The Drop Tower Experiment Series is a fellowship programme of the United Nations Office for Outer Space Affairs (UNOOSA) in which students can learn and study microgravity science by performing experiments in a drop tower. The Bremen Drop Tower in Germany is a ground-based laboratory with a drop tube of a height of 146 meters, which can enable short microgravity experiments to be performed in various scientific fields, such as fluid physics, combustion, thermodynamics, material science and biotechnology.

In collaboration with the Center of Applied Space Technology and Microgravity (ZARM) and the German Aerospace Center (DLR), the fellowship programme offers a selected research team the opportunity to conduct its own microgravity experiments at the Bremen Drop Tower. The series of experiments will consist of four drops or catapult launches during which approximately 5 or 10 seconds of microgravity, respectively, are produced.

ELIGIBILITY CRITERIA

- The DropTES Fellowship Programme is open to research teams from entities that are Member States of the United Nations. Teams should consist of up to four Bachelor, Master and/or PhD students who must be endorsed by an academic supervisor.
- It is further required that the proposed experiment be an integral part of the students' syllabuses, that is, part of a Bachelor thesis, a Master thesis, a PhD thesis, or another form of research project associated with the applicants' studies at the respective university.

CURRENT CYCLE

2.Why did you apply to DropTES? Why was the project needed or how did the project originate?

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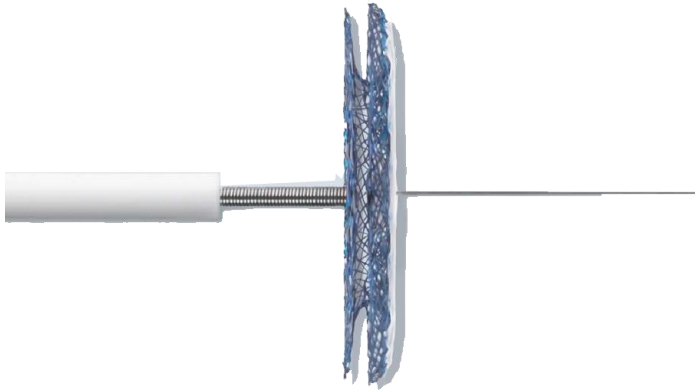
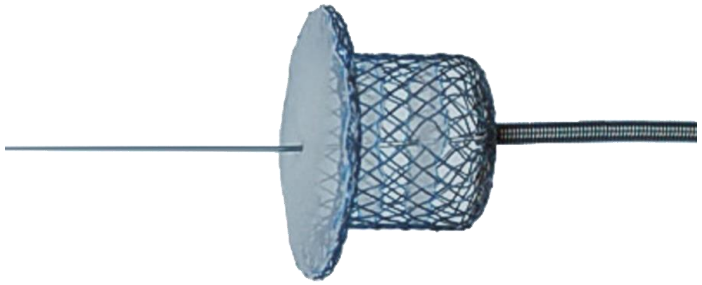
pfm medical
Quality and Experience



ASD

pfm
S. R. L.



PDA

MEDICAL DEVICES MANUFACTURED WITH NITINOL FOR HEART DEFECTCS

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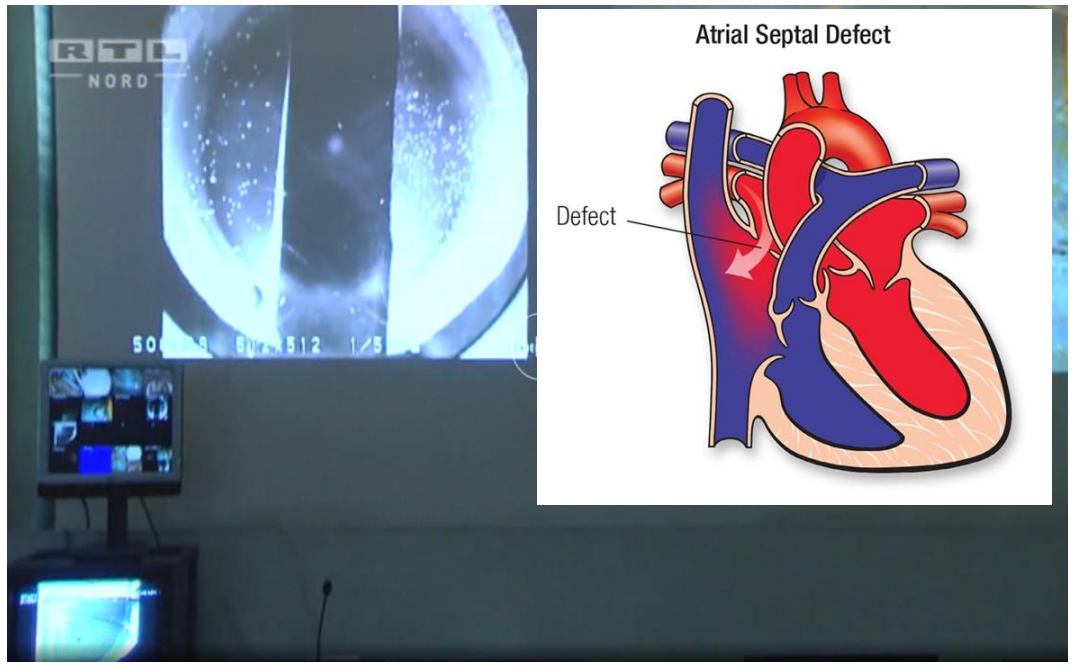
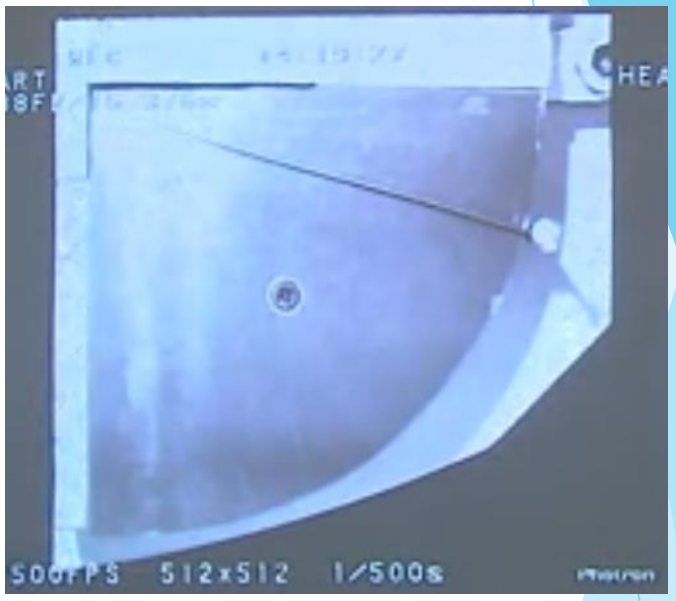


Heart emulator



Shape-memory test

3.How has participating in DropTES changed the environment around you?

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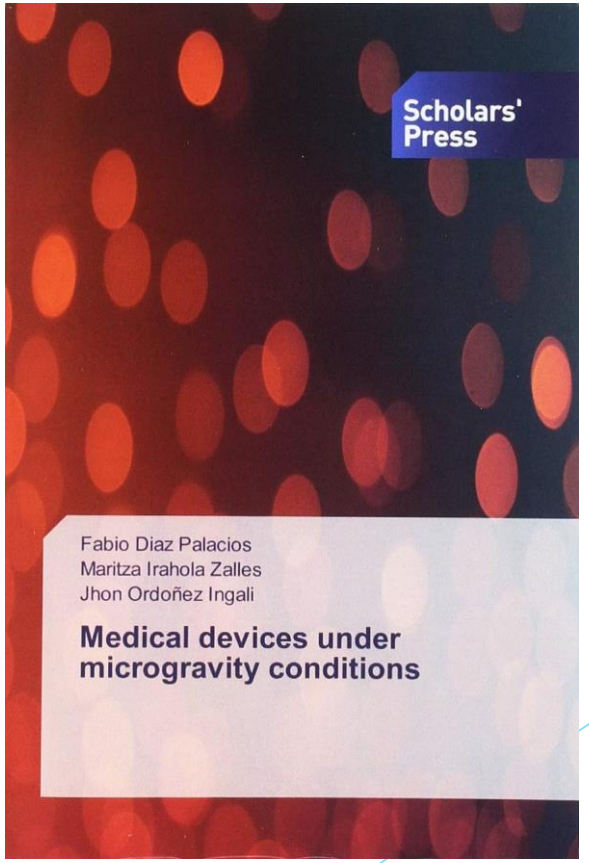

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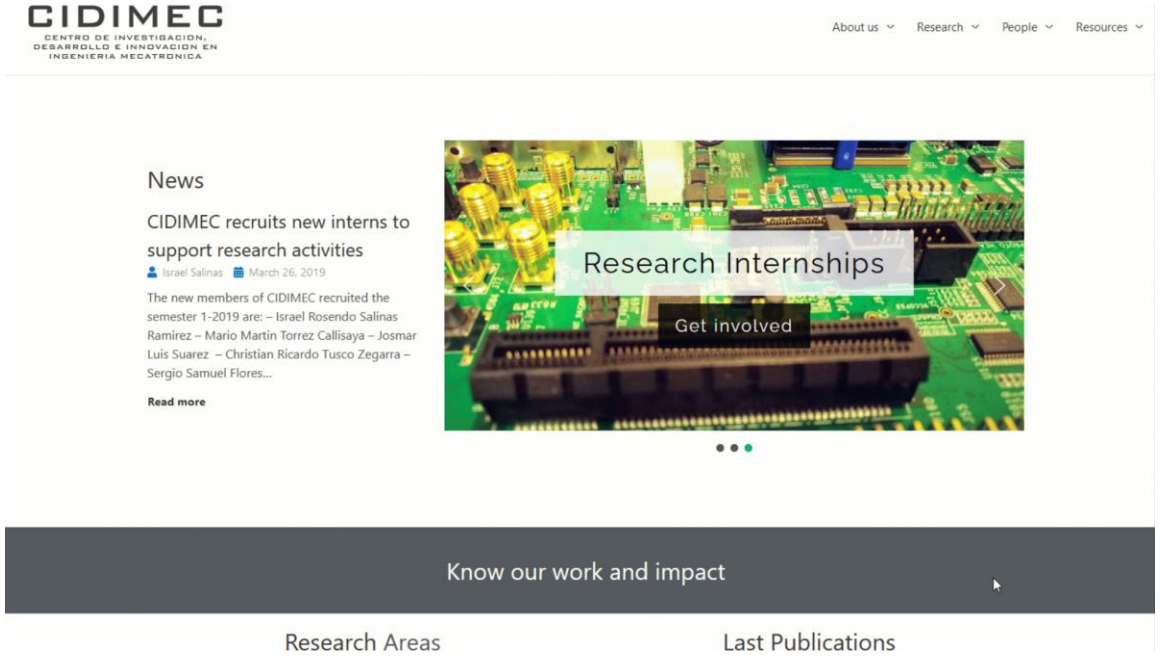

RESEARCH CENTER

MECHATRONICS DEPARTMENT

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OUR RESEARCH ACTIVITY

4. Hopes for the future

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- Create a specific research area in space technology

source: spaceWatch

THANKS!

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