

## INTERNSHIPS AND ACADEMIC PROJECTS

**GODREJ AND BOYCE MFG. CO. LTD., Special Processes Department, Mumbai**

**MAY – JULY '11**

- Sped up the process of manufacturing a section of the BrahMos Missile by **13.33 %** by correcting an earlier estimate of AA 6061 – T6 to T4 conversion's ageing duration from **96 hours** to **2 hours**
- Investigated the effects of black oxide coatings on 4340 alloy steel used in the Vikas Engine (ISRO) and concluded that it is unfeasible due to occurrence of pitting corrosion

**MICROSTRUCTURAL STUDY OF DEFORMED SHAPE MEMORY ALLOYS**

**JUNE '12 – PRESENT**

*Dual Degree Thesis*

- Investigating the effects of cyclic fatigue loading on Nickel-Titanium alloys of differing heat treatments and compositions and thus performing a comparative study of these alloys for shape memory applications

## POSITIONS OF RESPONSIBILITY

**MENTOR, Department Academic Mentorship Programme (DAMP)**

**JUNE '12 – PRESENT**

*One of twenty two mentors in the DAMP selected through an interview and peer review process*

- Guiding 3 academically weak students in dealing with matters related to academic and peripheral issues
- Addressing any grievances they may have
- Serving as a mediator for communication between them and their Faculty Advisors

**MANAGER, Annual Department Festival**

- Organised the **Workshops and Lecture Series** in **Padarth 2011**—the annual department festival of Metallurgical Engineering and Materials Science
- Increased the footfall of the event from **800** in the previous year to **3000**

**TEACHING ASSISTANT IN COMPUTER PROGRAMMING COURSE**

**2010-11**

- Selected as **UG Teaching Assistant** for Computer Programming & Utilization
- Guided a class of **40 students** by addressing their doubts and queries in C++

## ACADEMIC ACHIEVEMENTS

**IIT BOMBAY**

- Currently hold **Department Rank 6** among a batch of 37 Dual Degree students.

**INTERNATIONAL JUNIOR SCIENCE OLYMPIAD (IJSO)**

**DEC '05**

- Represented India and awarded the **bronze medal** in the 2<sup>nd</sup> IJSO held in Yogyakarta, Indonesia

**OTHER**

- Awarded the **Merit Certificate** in the Homi Bhabha National Science Talent Search Examination

**'04**

## EXTRA CURRICULAR ACTIVITIES

<b>BASIC MOUNTAINEERING COURSE</b>	<ul style="list-style-type: none"> <li>▪ Completed a 26 day training course in mountaineering, ascending a height of <b>14500 feet</b> in the Lahoul-Spiti region</li> </ul>
<b>FRENCH LANGUAGE COURSE</b>	<ul style="list-style-type: none"> <li>▪ <b>Topped</b> a class of 30 students in both modules of French Level 1 conducted by the French Embassy for IIT Bombay students</li> </ul>
<b>MISCELLANEOUS</b>	<ul style="list-style-type: none"> <li>▪ Reached the Quarter and Semi Finals of the Bournvita Quiz Contest (BQC) in 2 consecutive years</li> <li>▪ Actively participated in numerous intra-IIT football tournaments</li> <li>▪ Created a Solar Powered Boat in TechFest 'Solar Splash' Competition</li> <li>▪ Play a variety of musical instruments – guitar, drums, violin</li> </ul>