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Undergraduate Research  
Experience  
International - India  
Summer 2008

NJIT

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# 1<sup>st</sup> Meeting at Heritage Institute of Technology, Kolkata

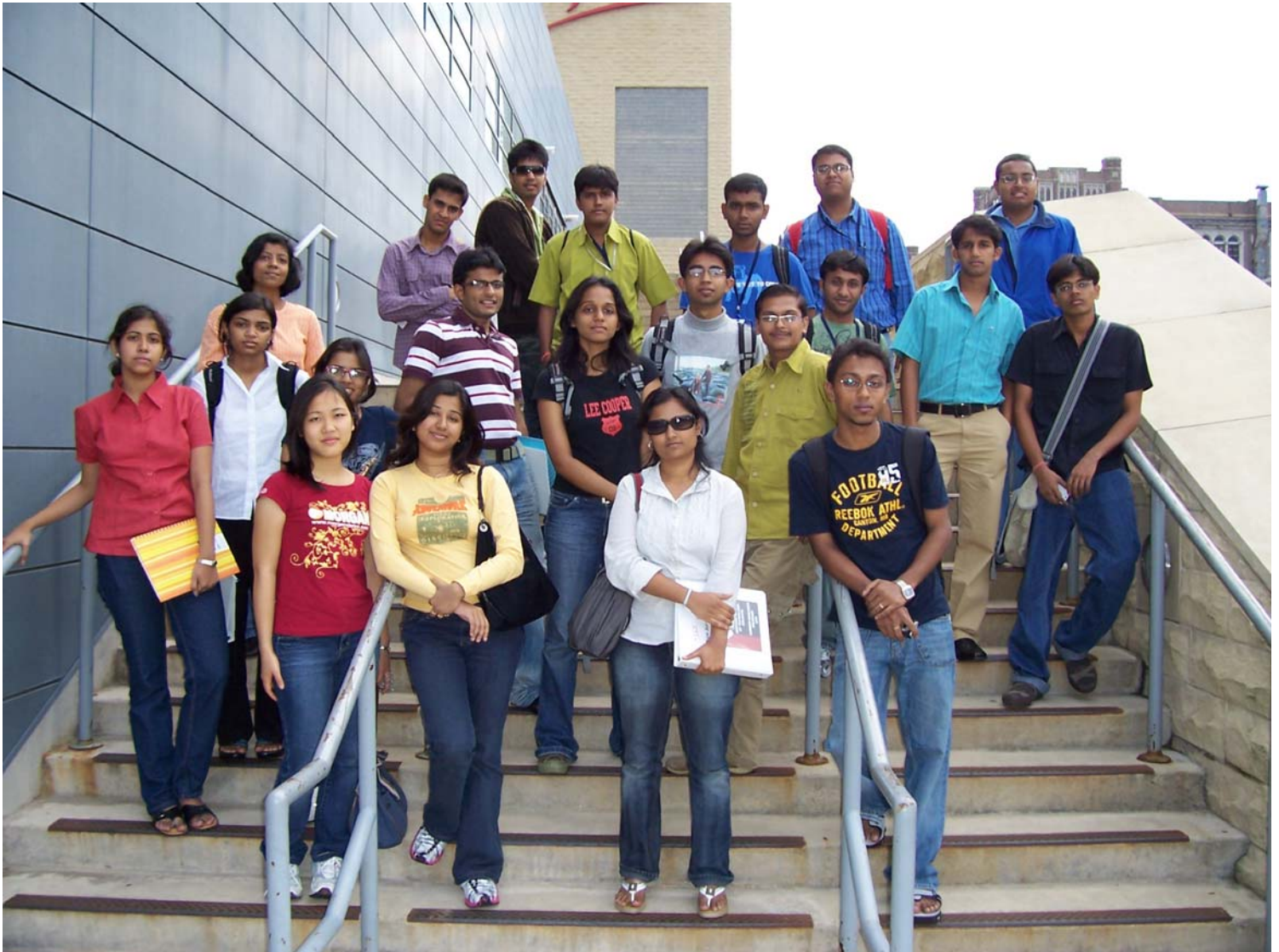
December 27, 2006



From left to right: Prabir Roy, Executive Director, HIT (school), email: [edirector@heritageit.edu](mailto:edirector@heritageit.edu); Dr. Ashok Agarwal, Trusty, IIHMR, email: [tcifi@sancharnet.in](mailto:tcifi@sancharnet.in); H.K. Chaudhary, Chairman and MD, Vakram India Ltd, email: [hkc@vikram.in](mailto:hkc@vikram.in); Durga Misra, NJIT; P.K. Agarwal, CEO, KBT, email: [ceo@heritageit.edu](mailto:ceo@heritageit.edu); Dr. D.C. Ray, Principal, HIT, email: [principal@heritageit.edu](mailto:principal@heritageit.edu); K.B. Agarwala, MD, Rupa & Co. Ltd, email: [kunjbehari@rupa.co.in](mailto:kunjbehari@rupa.co.in), Alok Chakrabarti, NJIT; Dr. Bk. Sinha, Director, Management Education Center, HIT, email: [directormec@heritageit.edu](mailto:directormec@heritageit.edu); name not known



# Heritage Institute of Technology Kolkata-REU



**First Row:** Cecilia Wang Chiu Ni, Joyeeta Mukherjee, Siddhi Singhi, Shipon Roy

**Second Row:** Biyash Bhattacharya, Megha Dugar, Puja Ghorawat, Sumit Agarwal, Purva Jalan, Ashish Agarwal

**Third Row:** Dr. Srabanti Basu, Anurag Agarwal, Saurabh Kumar, Rajarshi Mandal, Malay Sanghi

**Fourth Row:** Shriyas Bhartia, Saket Agarwala, Soumik Chakrabarty, Saurabh Suman Yadav, Aditya Sen, Apratim Bhattacharya

# Students from Indian Technology School Gain Hands-on Training in NJIT's Stabile Laboratories



Three Indian students from the Heritage Institute of Technology, Kolkata, India, are spending the summer in New Jersey in NJIT's new [Vincent A. Stabile Systems Engineering and Management Laboratories](#). Working with Stabile Scholar Frank Munoz (left), a graduate student in engineering management, Soumik Chakrabarty, Saurabh Kumar, and Shipon Roy are taking advantage of a rare opportunity to gain experience with the Stabile Laboratories' Festo System.



# Undergraduate Research Experience Symposium

**HIT-REU**

**Summer 2008**

**NJIT**

# Heritage Institute of Technology Kolkata

## NJIT Summer Research Symposium Participants

**Program Director:** Dr. Durgamadhab Misra

**Apratim Bhattacharya (Heritage Institute of Technology)** – Chemical Engineering  
**Research:** Modeling Drug Delivery Systems Using Diffusion and Dissolution Technique  
**Advisors:** Dr. Laurent Simon

**Biyash Bhattacharya (Heritage Institute of Technology)** – Chemical Engineering  
**Research:** Ultrafiltration  
**Advisors:** Dr. K. Sirkar

**Cecilia Wang Chiu Ni (Heritage Institute of Technology)** – Computer Science and Engineering  
**Joyeeta Mukherjee (Heritage Institute of Technology)** – Computer Science and Engineering  
**Research:** Scalable Web Search  
**Advisors:** Dr. Andrew Sohn

**Megha Dugar (Heritage Institute of Technology)** – Computer Science and Engineering  
**Research:** Designing Network Systems using OPNET  
**Advisors:** Dr. Nirwan Ansari

**Anurag Agarwal (Heritage Institute of Technology)** – Chemical Engineering  
**Siddhi Singhi (Heritage Institute of Technology)** – Computer Science and Engineering  
**Purva Jalan (Heritage Institute of Technology)** – Computer Science and Engineering  
**Research:** Dynamic Recomposition of Documents from Distributed Data Source  
**Advisors:** Dr. Vincent Oria

**Soumik Chakrabarty (Heritage Institute of Technology)** – Computer Science and Engineering  
**Shipon Roy (Heritage Institute of Technology)** – Information Technology  
**Saurabh Kumar (Heritage Institute of Technology)** – Computer Science and Engineering  
**Research:** Ladder Logic Programming of FESTO System  
**Advisors:** Dr. Sanchay Das

**Saket Agarwala (Heritage Institute of Technology)** – Computer Science  
**Research:** Grocery Distribution Decision Support System  
**Advisors:** Dr. C. Sylla

**Sauabh Suman Yadav (Heritage Institute of Technology)** – Electronic and Communication  
**Research:** Characterization MOS Deives with High-K Gate Dielectrics  
**Advisor:** Dr. D. Misra

**Malay Sanghi (Heritage Institute of Technology)** – Information Technology  
**Puja Ghorawat (Heritage Institute of Technology)** – Information Technology  
**Research:** Carry-Ripple Adder in 0.35  $\mu\text{m}$  CMOS Technology and Controller Design in VHDL  
**Advisor:** Dr. D. Misra

**Aditya Sen (Heritage Institute of Technology)** – Information Technology  
**Shriyas Bhartia (Heritage Institute of Technology)** – Information Technology  
**Research:** Vending Machine Controller Design Using VHDL and Subsystem (Comparator) Design  
**Advisor:** Dr. D. Misra

**Sumit Agarwal (Heritage Institute of Technology)** – Computer Science and Engineering  
**Ashish Agarwal (Heritage Institute of Technology)** – Computer Science and Engineering  
**Research:** IC Subsystem Design (Synchronous Counter) and Machine Controller Design Using VHDL  
**Advisor:** Dr. D. Misra

**Rajarshi Mandal (Heritage Institute of Technology)** – Information Technology  
**Research:** A Research: A 4-bit *left/right serial/parallel* Shift Register Design and A Controller Design Using VHDL  
**Advisor:** Dr. D. Misra

# Heritage Institute of Technology Poster Presentation



**NJIT President Dr. Bob Altenkirch (in red shirt) speaking to the students during the Campus-wide REU Summer Symposium on July 31, 2008**



# Heritage Institute of Technology Poster Presentation



**HIT Students explaining their research to Professor A. Perna, Director of McNair Research Program during the Campus-wide REU Summer Symposium on July 31, 2008**



# Heritage Institute of Technology Poster Presentation



**HIT Students having lunch with Professor A. Sohn during the Awards Ceremony Luncheon after the Campus-wide REU Summer Symposium on July 31, 2008**

# Heritage Institute of Technology Poster Presentation



**HIT Students in a group after the Awards Ceremony  
Luncheon for the Campus-wide REU Summer Symposium  
on July 31, 2008**



## Networking with other REU Students



**HIT Students with the REU Students from NJIT and REU Students from all over United States during the Summer 2008**