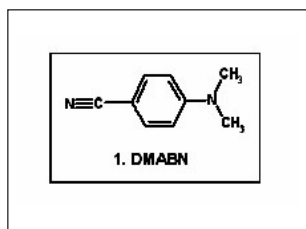


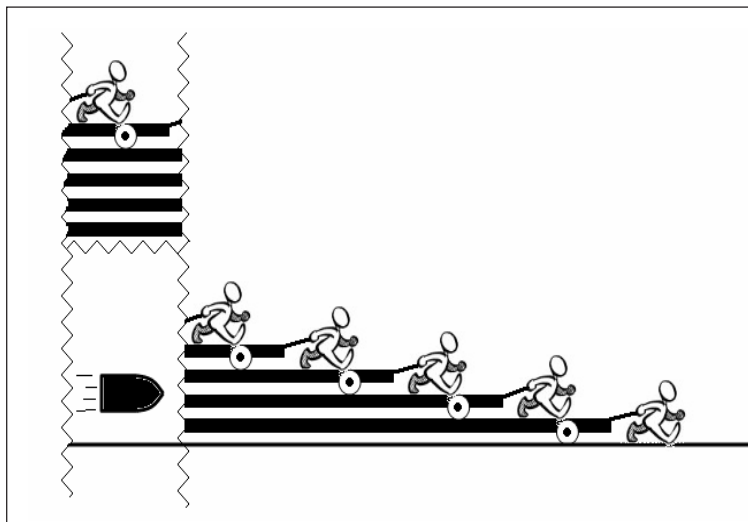
79



GENERAL ARTICLES

- 04 Josiah Willard Gibbs**
V Kumaran
- 12 Josiah Willard Gibbs and his Ensembles**
K P N Murthy
- 27 On Sums of Powers of Integers**
Shailesh A Shirali
- 44 Chemistry: The Middle Kingdom**
Gautam R Desiraju
- 61 Robots of the Future**
V K Wadhawan

86





Classroom

Rapidity: The Physical Meaning of the Hyperbolic Angle in Special Relativity **86**

Giorgio Goldoni

Survival in Stationary Phase **92**

S Mahadevan

FEATURE ARTICLE

79 Molecule Matters

4-(N,N-dimethylamino)benzonitrile: A Twist in the Excited State?

Anunay Samanta

Front Cover



LEMUR IIb – A four limbed robotic system designed to access the entire surface of the planetary body. (LEMUR: Limbed Excursion Mechanical Utility Robot)

(Courtesy: NASA/JPL-Caltech)

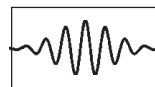
Back Cover



Josiah Willard Gibbs
(1839 – 1903)

(Illustration: Subhankar Biswas)

DEPARTMENTS



Editorial 01

Vasant Natarajan



Our Readers Write ... 95



Information and Announcements

2007 Abel Prize for **96**
S R S Varadhan

Refresher Course **96**
on Marine Geology
and Geophysics

Inside Back Cover

Flowering Trees
(Credit: K Sankara Rao,
IISc, Bangalore)

