**AHS Bangalore Chapter**  
**Technical Lecture Series May 09 – June 20, 2014**

**Speaker:** Dr. Manjunath (Ex. HAL, Bangalore)  
**Topic:** "Helicopter Design"  
**Where:** Aerospace Department Auditorium, Indian Institute of Science – Bangalore  
[http://www.iisc.ernet.in/](http://www.iisc.ernet.in/)  
**Entry:** Free for everyone

**Agenda for the Lecture:**

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<th>Date</th>
<th>Topics</th>
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<tr>
<td>9-May</td>
<td>Basics of Helicopter, Design Philosophy, Overview &amp; Preliminary Design of Helicopter</td>
<td>3:30 - 5:00</td>
<td>Seminar Hall, Aerospace dept. IISc</td>
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<td>23-May</td>
<td>ALH (Advanced Light Helicopter) Design Experience</td>
<td>3:30 - 5:00</td>
<td>Seminar Hall, Aerospace dept. IISc</td>
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<td>6-Jun</td>
<td>Rotor &amp; Wake Dynamics, Helicopter Stability &amp; Control</td>
<td>3:30 - 5:00</td>
<td>Seminar Hall, Aerospace dept. IISc</td>
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<td>20-Jun</td>
<td>Sources of Vibration &amp; Vibration Control</td>
<td>3:30 - 5:00</td>
<td>Seminar Hall, Aerospace dept. IISc</td>
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BRIEF BIOGRAPHY OF A.R. MANJUNATH

- Currently Visiting Professor at International Institute of Aerospace Engg & Management (IIAEM), Jain University, Bangalore
- Was Technical consultant for the Light Utility Helicopter (LUH) project at HAL Bangalore from 2010 to 2013.
- Was General Manager and Chief Designer at Rotary Wing Research & Design Centre (RWRDC), HAL at the time of Superannuation in Nov 2009.
- Was in-charge and Chief Designer for the Design & Development of LUH project which is expected to fly end this year.
- Was responsible for aerodynamic design of ALH rotor systems, Flight test data analysis and certification of ALH.
- Has worked for more than 35 years in Aircraft & Helicopter Design
- Was a Senior Visiting Fellow at University of Southampton, UK in 1980 in the field of Helicopter rotor noise & rotor testing at Wind Tunnel.

Area of Specialization:
- Helicopter aerodynamics, dynamics, Performance Stability & control and Preliminary Design.

Awards & Publications:
- Distinguished alumni of Department of Aerospace for the outstanding contribution in aeronautical field presented at centenary celebration of IISc, Bangalore, 2009.
- Published more than 10 papers in the field of Helicopter Rotor Stability & wake dynamics.

Graduated as Electrical Engineer from Mysore University in 1971 & Masters & PhD from IISE in 1973 & 1993 respectively.