

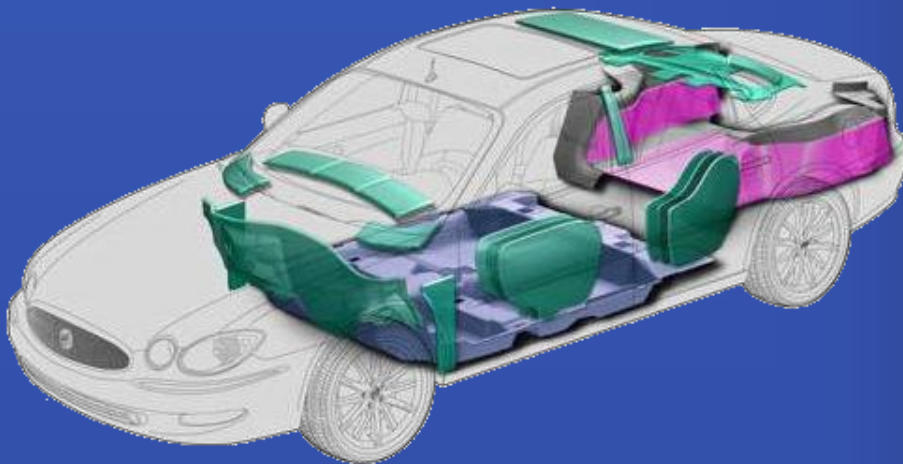
Jointly Present an International Lecture Series
ON
Sound Package Materials for Vehicle Noise Control

By

Dr. Pranab Saha, Ph.D.,

INCE Board Certified

Principal Consultant and co-founder of Kolano and Saha Engineers, Inc.



@

Date: 18 – 19 June, 2013 Location : Radha Regent – Chennai
171, Jawaharlal Nahru Salai, Arumbakkam, Chennai – 600 106.

&

Date : 21 – 22 June, 2013 Location : ARAI, – Pune.

The sound package materials for vehicle noise control seminar provides a detail and thorough analysis of three different classes of acoustical materials – namely absorbers, barriers, and dampers, how they are different from each other, and acoustical properties that materials should possess for optimum vehicle noise control. The seminar addresses new advances in acoustical materials, primarily in absorption materials that impact the vehicle acoustics. The seminar covers ways to evaluate the acoustical performance of these materials using different test methods, including material, component, and vehicle level measurements. The two day seminar starts with the fundamentals of NVH and sound quality related to sound package materials and discusses the importance of various noise sources that impact the development of sound package treatments in a vehicle.

Learning Objectives

By attending in this seminar, you will be able to:

- Identify various descriptors that are used in NVH and sound quality while working with sound package materials
- Recognize various noise sources and paths in a vehicle
- Identify three different classes of acoustical materials
- Describe ways that acoustical materials work and how they differ from each other
- Road map for vehicle sound package development
- Distinguish test methods used to evaluate the acoustical performance of material

Who Should Attend

Designed for OEM or supplier employees responsible for various noise activities, such as design, evaluation, trouble-shooting, procuring, supplying, and/or manufacturing noise control treatments and parts, this seminar will also benefit those with responsibilities including the areas of manufacturing, design, engineering, process, noise and release engineering, supervision or management. Attendees should have an undergraduate engineering degree and/or a working knowledge of noise control and automotive acoustics.

Topical Outline

- Fundamentals of NVH and Sound Quality
 - Defining acoustical performance of acoustical parts
 - Definition of terms
 - Human response to sound
 - Various noise and vibration instrumentation
- Vehicles Noise Sources and Solutions
 - The noise system
 - Vehicle noise sources
 - Road and wind noise
 - Miscellaneous noise sources
 - Noise control solution - source, path, receiver
 - Noise control system using sound package materials
- Materials for Vehicle Noise Control
 - Absorber, including case studies and test methods
 - Barrier, including case studies and test methods and the effect of holes
 - Damper, including case studies and test methods
 - Isolator
- Different Automotive Measurements
 - Vehicle
 - Component
 - Material

Please fill in the enclosed registration form and send it along with your payment details / DD or Cheque to the address given.

Speaker Profile

Dr. Pranab Saha, Ph.D., P.E., INCE Bd. Cert. is the Principal Consultant and co-founder of Kolano and Saha Engineers, Inc., an independent professional engineering and consulting company in acoustics, noise and vibration control. Dr.Saha, a well-known authority on automotive acoustics, sound package materials, and body interior systems, has directed and participated nationally and internationally in numerous advanced noise control engineering programs for OEM companies and their suppliers.



Dr.Saha has been an SAE Member since 1987, has served on the Noise and Vibration General Committee since 1988 and was the Conference Chair in 2005. Since 1988, he is a member of the Acoustical Materials Committee in the SAE Technical Standards Board, was the committee chair from 1996 through 2001, and has been directly involved with developing various standards for evaluating the performance of acoustical materials. Dr.Saha is also the Chair of the Technical Quality Response Team (TQRT), a member of the Engineering Meetings Board, Professional Development Instructor, Lead Faculty Member of the SAE Vehicle Interior Noise Academy, and the SAE Master Instructor. Dr.Saha holds a Ph.D. in Mechanical Engineering (Acoustics Specialty) from the Georgia Institute of Technology.

SAEINDIA

SAEInternational

Jointly Present 3rd International Lecture

on

Sound Package Materials for Vehicle Noise Control

18 – 19 June, 2013 Location : Radha Regent - Chennai.

21 – 22 June, 2013 Location : ARAI – Pune.

Please do call or mail us for Registration,

Mr. D. Seshadri

Deputy Director – Marketing

E-mail: seshadrid@saeindia.org

Mobile: +91 9444392613

Ms. Ramya Sankar

Deputy Manager - Marketing

E-mail: ramyasankar@saeindia.org

Mobile: +91 9840654378

Address:

SAEINDIA, No 1/17 Ceebros Arcade
2nd floor, 3rd Cross St, Kasturba Nagar,

Adyar, Chennai – 600 020,

Tel: 044 – 24411904, 42155280,

Web: www.saeindia.org