

## Brake Forum in Japan で発表します

日本機械学会(ブレーキの摩擦振動研究会)の主催で、11月28日～29日に、日本で初めて開催される国際会議 Brake Forum in Japan において、下記の講演を行ないます。

### 1. 主題及びプログラム概要

#### **Brake Disc Rotor and Judder**

講演者	岡村 俊和
講演日	2016年11月28日(月)
講演会場	栃木県総合文化センター(宇都宮)

### 2. 講演要旨

Brake NVH is one of the most concerned issues in an automotive-brake system. Among brake NVH problems, brake squeal is a friction-induced self-excited vibration; while brake judder is a forced vibration by the undesirable friction-surface geometry of a brake disc such as large DTV and lateral-runout. Therefore brake disc rotors play a significant role in judder. Brake judder is generally classified into two types: cold and hot. From a viewpoint of brake disc rotors, mechanisms causing brake judder can be classified into four: off-brake DTV growth due to large lateral-runout, on-brake DTV growth due to inhomogeneous material, thermo-mechanical deformation due to high-speed braking, and corrosion. The author presented several papers at the SAE Brake Colloquium and FISITA World Automotive Congress from a comprehensive study to reducing brake judder focusing on the above-mentioned three mechanisms excluding corrosion. In this presentation, some experimental results and analyses are abstracted from previous papers. The effects of material and dimensional homogeneity of brake disc rotors on their differential wear and thermo-mechanical deformation will be discussed.

### 3. 本件に関するお問合せ先

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