

# The Adhesion Society of Japan

## The Research Group of Structural and Precise Adhesion

### Themes Covered by the Society

Against the backdrop of environmental protection, energy conservation, the advancement of IT society, the sophistication of medical technology, the aging of social infrastructure, and the aging population, there is an increasing demand for lightweight, compact, high-performance equipment and components, as well as productivity improvement and cost reduction. Adhesive bonding serves as a critical technology to meet these needs, with demand steadily increasing. Particularly in fields such as aerospace, automotive, and precision equipment, the lightweight of moving vehicles and the enhancement of electronic, optical, and precision instruments continue to advance each year, driving significant progress in adhesive development, surface modification, evaluation, analysis, quality control, and related equipment. However, challenges remain, including unclear design criteria, inability to perform non-destructive strength testing, and uncertainty about durability and lifespan, creating a gap in versatility compared to other joining methods. Moreover, the adoption of adhesive bonding is hindered by a shortage of engineers knowledgeable in adhesive technology within companies.

In this context, our society aims to match adhesive technology with market needs, elevate the skills of engineers, and contribute to the creation of high-performance, highly reliable, and high-quality products. With a significant increase in corporate members, we strive to further enhance our activities to better serve your needs.

### Objectives of the Society

Our society conducts research, education, and information exchange on designing and applying adhesive joints. We aim to understand industry and societal needs, advancing adhesive technology for a sustainable future.

### Activities

1. Holding research symposiums (typically four times a year)
2. Organizing study tours (typically twice a year)
3. Hosting symposiums (once a year)
4. Conducting educational seminars for public awareness
5. Implementing working group activities
6. Extracting the needs of research society members (during the above-mentioned activities 1-5)
7. Facilitating information exchange among research society members (during the above-mentioned activities 1-5)
8. Issuing reports
9. Other necessary activities to achieve the society's objectives

### Targeted Technical and Research Fields

- (1) Design Methods for Joints (Functional, Structural, Material, Process, Quality)
- (2) Durability and Lifespan of Joints (Environmental, Mechanical, Composite)
- (3) Reliability and Quality Control of Joints
- (4) Evaluation and Analysis of Joints (Strength, Functionality, CAE Analysis, Surface Analysis, Non-Destructive Testing)
- (5) Jointing Techniques (Surface Treatment, Curing, Composite Bonding, Adhesion-related Equipment)
- (6) Adhesives (Structural, Functional, Adhesive, Sealants)
- (7) Substrate Materials (Base Material Characteristics, Surface Properties)
- (8) Applications of Adhesion (Structural Bonding, Functional Bonding, Heterogeneous Material Bonding, Sealing)
- (9) Environmental Considerations and Recycling (Lightweighting, Disassembly, Repairability, VOC Control)
- (10) Others (Technologies to address changing member needs over time)

### Contact Information:

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**of Structural and Precise Adhesion**

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