



Japan Prestressed Concrete Institute

公益社団法人 プレストレストコンクリート工学会



JPCI Japan Prestressed Concrete Institute

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Message from President Shimomura

The Japan Prestressed Concrete Institute (JPCI) is the only academic organization related to prestressed concrete (PC) in Japan, and was founded in 1958 as the Japan Prestressed Concrete Engineering Association. Today, many infrastructures such as bridges, buildings, and tanks and so on are constructed using PC structures, and PC structures and related technologies have become indispensable to modern society.

JPCI aims to contribute to the safety, security and development of society through the advancement of science and technology related to PC structures and their dissemination. To achieve this goal, we are doing various activities which are publication of the journal "Prestressed Concrete", publication of books such as various technical standards and guidelines, holding annual PC symposiums and various seminars, and certification of engineer qualifications of "Prestressed Concrete Engineer" and "Concrete Structure Diagnostician".

Along with the Japan Concrete Institute (JCI), JPCI is also a Japanese official member organization of *fib* (The International Federation for Structural Concrete), an international academic society on concrete structure, and is conducting the systematic international exchanges on the technology and the academics of PC and concrete structure.

We are committed to addressing the important issues surrounding modern PC, such as preparation for large-scale natural disasters, maintenance and management of existing structures, and response to decarbonization. We are also committed to communicating the appeal of PC to the general public, especially to the next generation, including students, in order to pass on PC technology, enhance its presence, and promote its sustainable development.

We would appreciate your support and cooperation.

Dr. Takumi Shimomura, the 36th President of the Japan Prestressed Concrete Institute
(Professor, Nagaoka University of Technology)



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ORGANIZATION

JPCEA (Japan Prestressed Concrete Engineering Association) which is the forerunner of JPCI has been founded in 1958 to extend prestressed concrete engineering in Japan and contributed over 60 years in prestressed concrete engineering and structural concrete. JPCI co-organizes the national organization of *fib* (The International Federation for Structural Concrete) with JCI (Japan Concrete Institute). JPCI mainly contributes to activities of national organization in the field of structural concrete. The officer of JPCI becomes a member of the *fib* presidium as a Japanese representative, participates in planning and administrating of events.

OUTLINE of ACTIVITIES

JPCI was established for the verification, advancement and promotion of prestressed concrete engineering. Our main activities are as follows.

- (1) Research and promotion of prestressed concrete engineering, and spread of those results
- (2) Publication of journals and reports, and providing technical courses and lectures
- (3) Activities related with domestic and international

- organizations
- (4) Qualification and education for prestressed concrete engineers
 - (5) Various activities to attain our objects and public interest

COMMITTEE ACTIVITIES

JPCI organizes working committees to carry out various activities functionally. The following list is a part of working committees.

- Technical Standard Committee
- Journal Editorial Committee
- International Committee
- Committee on Prestressing Reinforcements
- Symposium Organizing Committee
- Committee on Certification of Authorized Prestressed Concrete Engineer
- Committee on Certification of Professional Engineer for Concrete Structural Diagnosis and Maintenance
- Committee on Selection of Public Offering Research
- Committee on Archives of Prestressed Concrete Technology

JOURNAL of Prestressed Concrete

JPCI publishes bimonthly journal. The journal is recognized as a valuable paper in the field of structural concrete. It gives the latest and useful information of prestressed concrete and structural concrete.



PUBLICATIONS

JPCI publishes various books on the prestressed concrete engineering. The following are part of publications in English and Japanese.

JPCI and JCI jointly publish "National Report of Japan on Prestressed Concrete Structures" for International *fib* Congress.

"Prestressed Concrete for Beginners" is widely used for education for college students and young engineers. The Korean edition is also available.



English Publications

- National Report of Japan on Prestressed Concrete Structures, for The 5th International *fib* Congress (2022)
- Specifications for Design and Construction of Cable-Stayed Bridge and Extradosed Bridge
- Guidelines for Design and Construction of Grouting for Prestressed Concrete Structures
- Guidelines for Maintenance of Prestressed Concrete Cable-Stayed Bridge and Extradosed Bridge
- Guidelines for Performance Verification of Corrosion-Protective Prestressing Steel for External Cables of PC Box Girder

Japanese Publications

- Prestressed Concrete for Beginners
- Specifications for Design and Construction of Prestressed Concrete Structures with High Strength Concrete
- Specifications for Design and Construction of Hybrid Bridges
- Specifications for Design and Construction of Prestressed Concrete Cylindrical Water Tanks
- Specifications for Design and Construction of Prestressed Concrete Bridge using PE Sheath for Internal Bonded Post-Tensioning
- Guidelines for improving durability of Prestressed Concrete Structures
- Guidelines for Design and Construction of Prestressed Concrete Structures with High Strength Prestressing Steel

- Guidelines for Inspection of Prestressing Steels and Repair & Strengthening of Existing Bonded Post-Tensioned Concrete Bridges
- Report of Prestressed Concrete Structures on the Great East Japan Earthquake Disaster
- Anchoring Device for Prestressed Concrete (2010)

SYMPOSIUM

JPCI holds annual symposium on prestressed concrete and structural concrete for advancement of prestressed concrete engineering. Lots of technical papers and technical reports are presented.



JPCI AWARDS

JPCI presents annual awards to eminent papers, structures, technical developments and construction technologies. The awards were founded in 1972 and were given for the first time in 1973. The award is one of the most prestigious awards in the field of prestressed concrete engineering and structural concrete in Japan.



ENGINEER QUALIFICATIONS

(1) Authorized Prestressed Concrete Engineer

JPCI certifies Authorized Prestressed Concrete Engineer to secure the quality of prestressed concrete structures and improve the technical ability of engineers concerned with prestressed concrete engineering. It is widely recognized and required as the qualification of prestressed concrete structure construction for public works. As of April of 2023, more than 4,700 engineers are registered as Authorized Prestressed Concrete Engineer.

(2) Professional Engineer for Concrete Structural Diagnosis and Maintenance

The load of maintenance of structures has been increasing along with the stock of infrastructure. In such circumstances, JPCI has established the program for the Professional Engineer for Concrete Structural Diagnosis and Maintenance program that certifies the engineers with wide and advanced knowledge for diagnosis and maintenance of concrete structures. The wide activities by Professional Engineers for Concrete Structural Diagnosis and Maintenance are highly expected for the maintenance of concrete structures.

More detailed information is found on the website of JPCI.

<https://www.jpcci.or.jp>