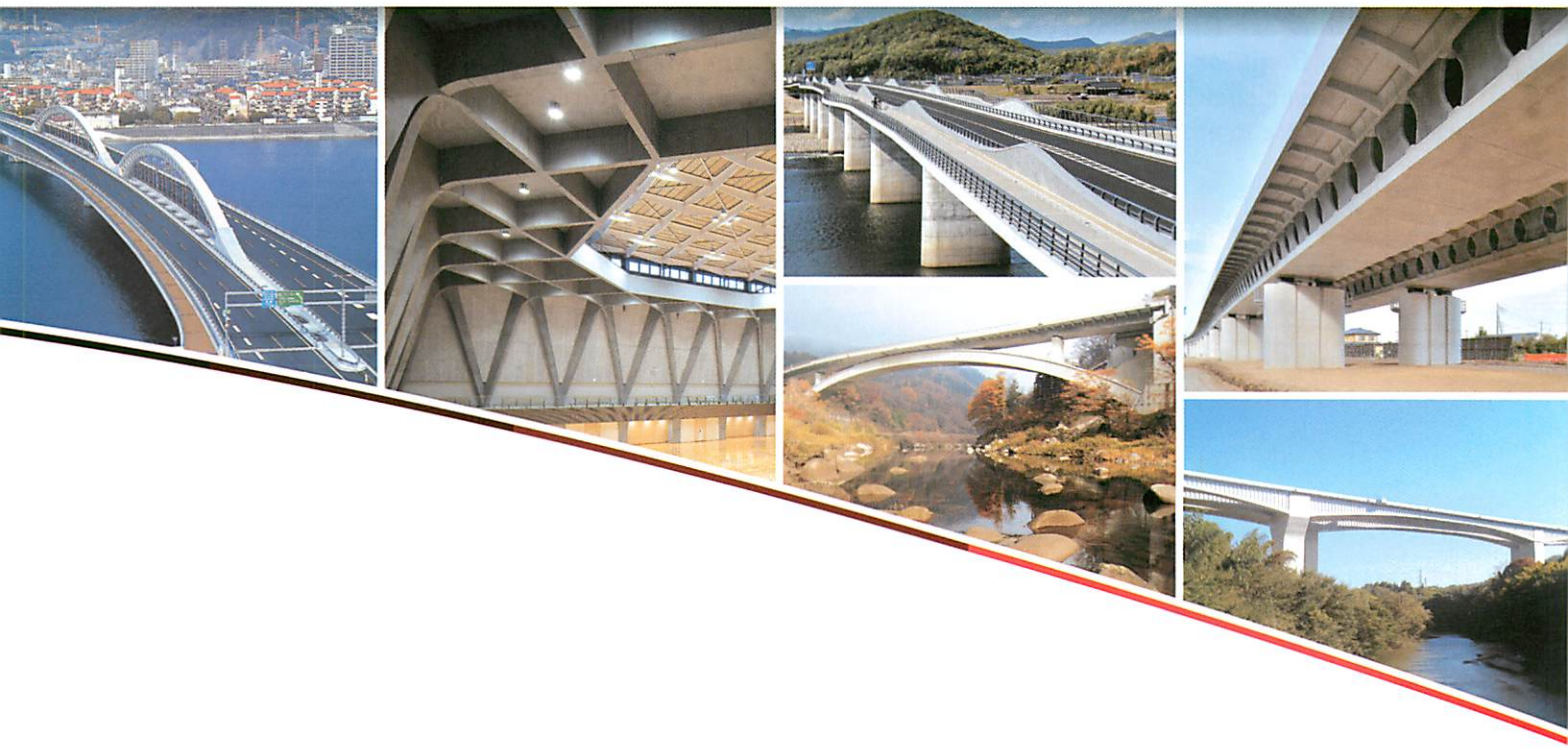
Japan Prestressed Concrete Institute

公益社団法人　プレストレストコンクリート工学会



JAPAN
PRESTRESSED
CONCRETE
INSTITUTE

MESSAGE from the PRESIDENT of JPCI

It is a real pleasure and a great honor for me to serve as the 32nd President of the Japan Prestressed Concrete Institute or JPCI. The next two years will provide incomparable opportunities for meeting and interacting with JPCI members from all across Japan and overseas.

I joined the Japan Prestressed Concrete Engineering Association, the precursor of JPCI, as a graduate student at Kyoto University. My research career started under the supervisor of Professor Hiroshi Muguruma who was active in the research field of concrete materials and building structures. I myself was specifically working on high-strength concrete, confined concrete and prestressed concrete. Concrete work in those days in the Reinforced Concrete Laboratory produced lots of muscles. Everything was done by hand, including washing and drying aggregates, shoveling them into small mixers and hauling the many concrete batches into place with wheelbarrows. We cast reinforced concrete columns with 130 MPa compressive strength concrete, which was as sticky as unhardened rice cake, and needed a lot of strong muscles to cast it into the formwork.

As a public interest incorporated association, JPCI is currently taking a more active role than ever in developing design codes, guidelines and manuals for safe, resilient, and sustainable buildings and for infrastructure, such as bridges. Some of these documents produced are also published in English. JPCI offers a wide variety of activities for researchers, practitioners, and designers in the field of precast and prestressed concrete structures to interrelate and exchange information. JPCI has invited distinguished guest speakers from overseas to the annual symposium since 2013. This provides a good opportunity for JPCI members to be exposed to the practices in foreign countries.

The year of 2015 started with the good news that both engineering qualifications of JPCI have been registered as private qualifications by the Ministry of Land, Infrastructure, Transport and Tourism (MLIT). The qualifications are (i) Authorized Prestressed Concrete Engineer, and (ii) Professional Engineer for Concrete Structural Diagnosis and Maintenance. The engineers' proficiencies in inspection and diagnosis of concrete structures are of great importance to ensure that we manage our existing structures appropriately.

西山峰弘

Dr. Minehiro Nishiyama, The 32nd President of Japan Prestressed Concrete Institute
(Department of Architecture and Architectural Engineering, Graduate School of Engineering, Kyoto University)

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 50 years in Prestressed Concrete Engineering and Structural Concrete.

JPCI co-organizes the national organization of *fib* (fédération internationale du béton) with JCI (Japan Concrete Institute) . JPCI mainly contributes the activity 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 a plan and the administration of the event.

OUTLINE of ACTIVITIES

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

(1) Research and promotion of prestressed concrete engineering, and the spread of those result
(2) Publication of journal and reports, holding technical classes and lectures
(3) Domestic and international activities with related organizations
(4) Various activities to attain our objects and public interest

WORKING COMMITTEES

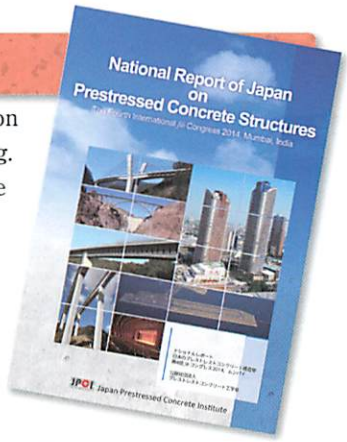
JPCI organizes working committees to carry out various activities functionally. The following lists are part of working committees.

- Technical Standard Committee
- Journal Editorial Committee
- International Committee
- Committee on Prestressing Reinforcements
- Symposium Organizing Committee
- Committee on Certification of Prestressed Concrete Engineer
- Committee on Certification of Maintenance Engineer for Concrete Structures
- Committee on Selection of Research Proposal from Public

JOURNAL of JPCI

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

PUBLICATIONS



JPCI publishes various books on prestressed concrete engineering. The follows are a part of japanese publication list.

"Prestressed Concrete for Freshmen" is widely used for education for college students and young engineers. It is also translated in Korea.

English Publication

- National Report of Japan on Prestressed Concrete Structures, for The 4th International *fib* Congress (2014)
- Specifications for Design and Construction of Cable-Stayed Bridge and Extradosed Bridge (2012)
- Guidelines for Design and Construction of Grouting for Prestressed Concrete Structures (2013)
- Guidelines for Maintenance of Prestressed Concrete Cable-Stayed Bridge and Extradosed Bridge (2012)
- Guidelines for Performance Verification of Corrosion-Protective Prestressing Steel for External Cables of PC Box Girder (2012)

Japanese Publication

- Prestressed Concrete for Freshmen (2015)
- Technology on Prestressed Concrete (2013)
- Diagnosis Technology on Concrete Structures (2015)
- Guidelines for improving durability of Prestressed Concrete Structures (2015)
- Guidelines for Design and Construction of Prestressed Concrete Structures with High Strength Prestressing Steel (2011)
- Anchoring Device for Prestressed Concrete (2010)
- Specifications for Design and Construction of Prestressed Concrete Structures with High Strength Concrete (2008)
- Specifications for Design and Construction of Hybrid Bridges (2005)
- Specifications for Design and Construction of Prestressed Concrete Cylindrical Water Tanks (2005)
- Proceedings of the Symposium on Developments in Prestressed Concrete (backnumber)

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 paper, structures, technical development and construction technology. The awards were founded in 1972 and awarded first in 1973. The award is one of the most prestigious awards in the field of prestressed concrete engineering and structural concrete in Japan.

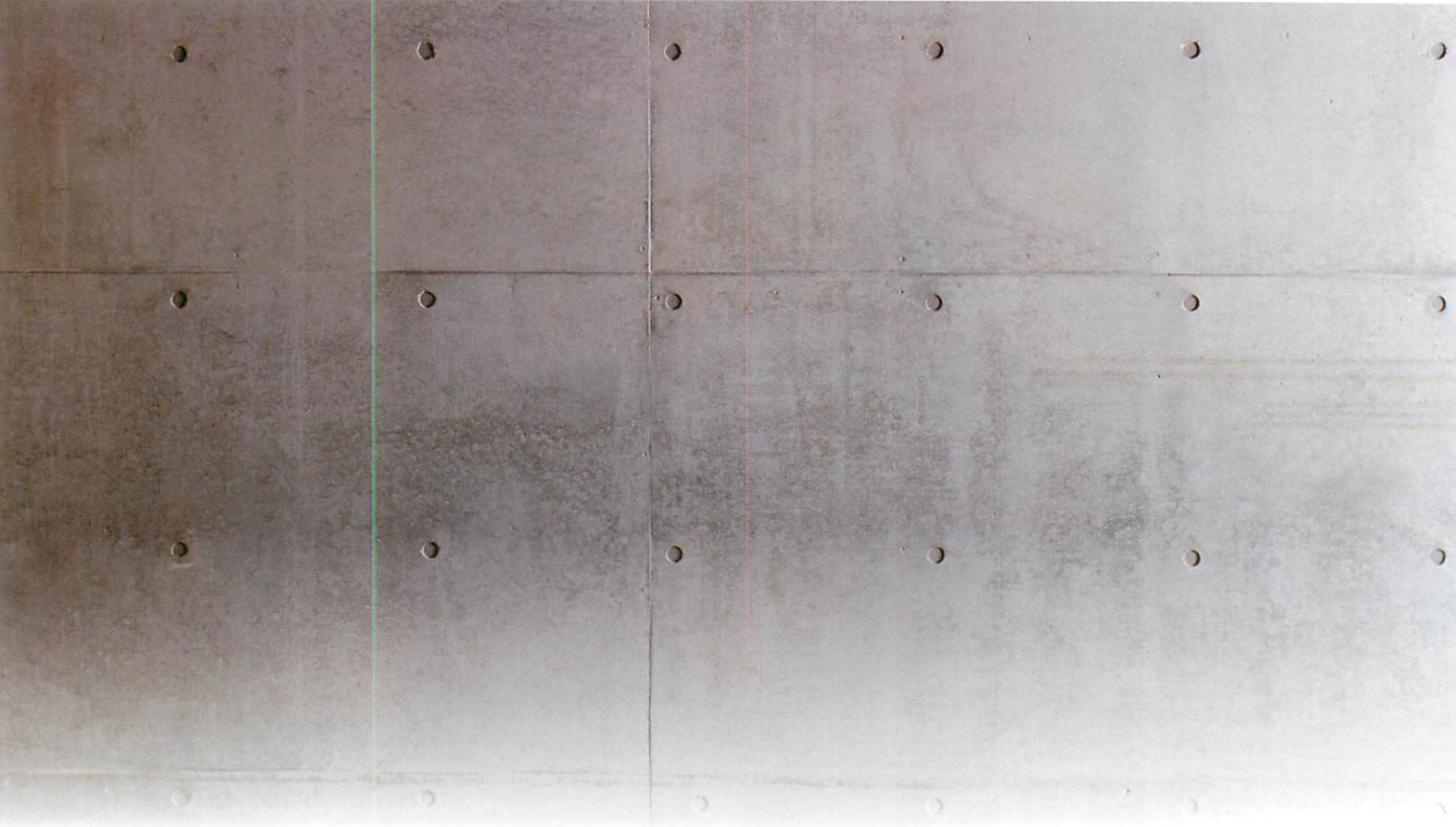
ENGINEER QUALIFICATIONS

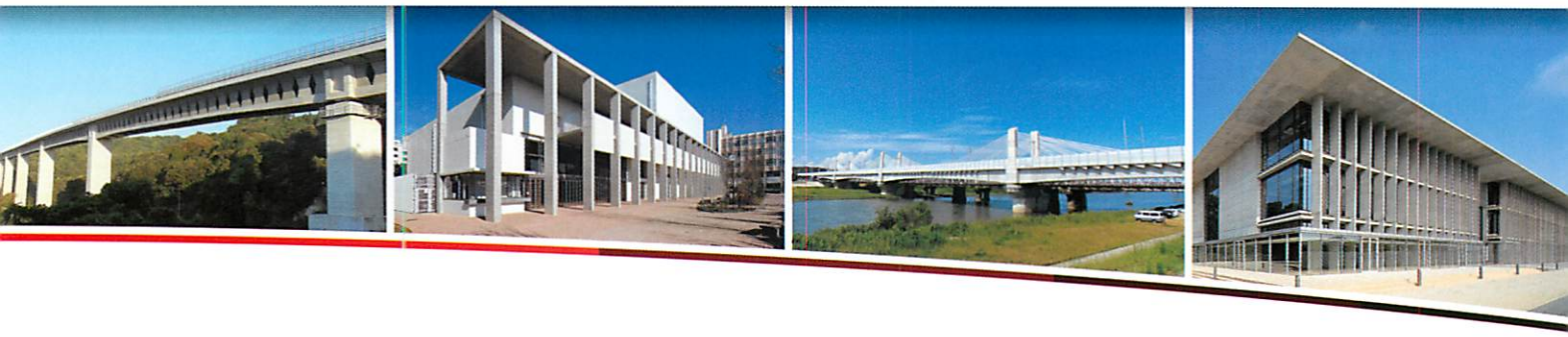
(1) Authorized Prestressed Concrete Engineer

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 recognised and required as the qualification of prestressed concrete structure construction for public works. As of April of 2015, more than 5,500 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 established 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 of Professional Engineer for Concrete Structural Diagnosis and Maintenance are highly expected for the maintenance of concrete structures.





Japan Prestressed Concrete Institute

4-6, Tsukudo-Cho, Shinjuku-Ku, Tokyo 162-0821 Japan
TEL:+81-3-3260-2521 FAX:+81-3-3235-3370
http://www.jpci.or.jp

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