The award of the Concrete Structure of the year starts ...

The first award of the Concrete Structure of the year was given in 1970 in Finland. During 1970-1975 the board committee of the central organization of the Finnish Concrete Industry chose the nominees.

The proper criterion of evaluation had not been defined at that time.

The judges of the competition were SBK’s (Finnish Concrete Central Organisation) board committee, which consisted of persons selected from among the members of the organization. The board committee had a strong representation of engineers.

The awarded sites were advertisements of concrete construction, large and demanding structures or structures that were visible from afar. As an example the Panoramic restaurant Näsinneula in Tampere.

The nature of the competition became more official in 1977, as the first rules were drawn out. The rules determined the purpose of the competition, the grounds for awarding, criterion and the composition of the panel of judges. The criterion were determined as the design of the site, the pioneering work of the construction, the technical attributes of the site, the economy of the site, the appearance, the acclimatization to the environment and the significance the construction has to the development of concrete construction. After the rules were drawn up, the competition became open for everyone.
1970 NÄSNINNEULA, Tampere
architect Pekka Ilveskoski

1970 PANORAMIC RESTAURANT
TOWER NÄSNINNEULA, Tampere
architect Pekka Ilveskoski

1971 LAHDEN SUURMAKKI
architects Sulo Järvinen and Erik Liljeblad

1971 SKI JUMPS TOWER, Lahti
architects Sulo Järvinen and Erik Liljeblad
1972 MJ VESITORNI

suunnittelijat Matti, Henri ja Petri
Janhunen, Matti Ollila

arkkitehti Michele Merckling

1972 MJ WATER TOWER

construction design

Matti, Henri and Peter Janhunen,
Matti Ollila,

architect Michele Merckling

1973 MERHAKA, Helsinki

KK:n arkkitehtiosasto: arkkitehdit Peter Biber, Arvi Ilonen, Sulo Savolainen

1973 RESIDENTIAL AREA MERHAKA, Helsinki

architects Peter Biber, Arvi Ilonen, Sulo Savolainen
1974 UNIVERSITY AREA IN LINNAINMAA, Oulu
architect Kari Virta

1974 OULUN YLIOPISTON LINNAINMAAN ALUE
arkkitehti Kari Virta

1975 PEDESTRIAN BRIDGE, Porvoo
design: Insinööritoimisto
Eero Paloheimo - Matti Ollila

1975 PORVOONJOEN JALANALKUSETTA
suunnitelu, insinööritoimisto
Eero Paloheimo - Matti Ollila
1976 PRECAST CONSTRUCTION SYSTEMS OF BRIDGES OF TVH

1976 TVH-N ELEMENTTISILTA- JÄRJESTELMÄT

suunnittelu: TVH, sillansuunnit-
telutoimisto, Insinööritoimisto
Sormunen & Uuttu Ky

1977 LAHDIEN URHEILUKESKUKSEN KATSOMO

Konsultointikeskus Oy / arkkitehtitoimisto KSS

1977 THE MAIN SPECTATOR STAND BUILDING OF LAHTI

SPORTS CENTER

Konsultointikeskus Oy / arkkitehtitoimisto KSS
1978 PASILA POSTIKESKUS, Helsinki
Arkkihiippimies Lindqvist, Löfström, Uosukainen

1978 THE WAREHOUSE OF THE POST CENTER IN PASILA, Helsinki
Architects Lindqvist, Löfström, Uosukainen

1979 ASUNTO OY LINTUNIITTY, Tampere
suunnittelu: Rakennusyhtymä Mattinen - Niemelä Oy

1979 RESIDENTIAL HOUSING LINTUNIITTY, Tampere
design: Rakennusyhtymä Mattinen - Niemelä Oy
In the 1980s

In 1980 specifications were made to the rules. The most significant change was the expansion of the panel judges: Suomen Arkkitehtiliitto (the Architect’s Association of Finland, SAFA), Suomen Betoniyhdistys (the Concrete Association of Finland), Suomen Kunnallisteknillinen Yhdistys (the Municipal Technique Association), Tekniilisen Korkeakoulun Rakennusinsinöörijärjestö (the Engineer department of the institute of technology) and SBK were all allowed to appoint one representative.

In the criterion the term appearance of the building was replaced by the term architecture.

The competition of 1982 can be seen as a turning point towards a competition emphasizing architecture. That year, the award was given to a cultural building; Lahti theatre building designed by architect Pekka Salminen.

The rules were specified again year 1986. The purpose of the competition was recorded the development of concrete architecture alongside the development of concrete technology, which furthermore strengthened the architectural nature of the competition.

The designers of the awarded sites are well-known and recognized Finnish architects. The rules of the competition have remained similar in content from 1986 until today, not taking into consideration the abolishment of the central organization of the Finnish Concrete Industry and the fact that the organizational responsibilities were taken over by Betonitehdas RTT and furthermore by Betonitehdas Ltd. Since 2004 the rules were assessed and as a result the winner must be located in Finland.
Form and Plasticity

One quality of concrete is its plasticity, which enables the diverse use and shaping of the material. It is possible to cast the more diversely shaped bodies in a mould. The development of steel concrete technology has released the realization of structural and artistic aspirations.

While examining the shape and the function of it in the awarded sites, it can be stated that the forms during 1970-1981 were very constructive or “box-like”.

The freer shaping of concrete can be first seen in 1983 in the facade elements of the Baghdad congress’ palace.

After the beginning of the 80s free forms have been used as architectural focal points in many awarded sites as in Tampere’s Metso designed by the Pietilä.

Surface

Concrete can be used as a surface in innumerable manners. The surface can be left unrefined after molding or it can be treated in different ways after the mold has been taken apart.

The most significant thing that affects the appearance of the concrete structure in a larger scale is the way the surface is realized. In industrially manufactured facade-elements the element seams divide the surface vertically and horizontally. In the facades of the awarded sites Merihaka residential area and the Linnainmaa area of Oulu University in 1973 and 1974 bright basic colors were used as effects in the grey concrete surface to brighten up the grey overall look.

The use of coloured concrete gives its own look to the facades in the 90s. The colour is achieved by using colour pigments and white cement.
1982 LAHTI THEATER BUILDING
architect Pekka Salminen

1983 BAGHDAD CONGRESS PALACE, Iraq
architects Kaija ja Heikki Siren

1983 THE BAGHDAD CONGRESS' PALACE IN IRAQ
architects Kaija ja Heikki Siren
Vuoden 1984
Betonirakenn
on Tretjakovin galleria

1984 TRETJAKOVIN GALLERIAN DEPOSITARIUUM. Neuvostoliitto
arkkitehdit Jaakko Salonen ja Eva-Karin Wilkko-Antell

1984 TRETJAKOV’S GALLERY, DEPOSITARIUM, Soviet Union
architects Jaakko Salonen and Eva-Karin Wilkko-Antell

1985 TAMPEREEN PÄÄKIRJASTO (METSO)
arkkitehdit Raili ja Reima Pietilä

1985 TAMPERE MAIN LIBRARY (METSO)
arichitects Raili and Reima Pietilä
1986  YHTYNEET KUVALEHTIT
OFFICE BUILDING
Länsi-Pasila, Helsinki
architect Ilmo Valjakka

1987  LÄNSI-PASILAN ASUNTONALOEN KOERAKENTAMISKORTTELI
THE DEVELOPMENT OF WESTERN PASILA RESIDENTIAL AREA
architect Jan Söderlund
In the 1990s

The sites awarded in the beginning of the 1990s continue the series of public or cultural buildings.

The participation in the competition has been considerable in the 90s. Among the nominees have been shopping malls, main office buildings, residential buildings, cultural buildings and a few church buildings. A few bridges and water towers among the nominees keep up the traditions of the 70s in the competition.

The new direction of the competition started in 1998. After that year there has been also renovation projects among the nominees almost every year .....
"LEHTIMAJAT"

VUODEN BETONIRAKENNE 1991 / SBL
HAUSJÄRVEN TERVEYSASEMA JA VANHAINKOTI

1992 JOENSUU KIRJASTO
arkkitehdit Tuomo Siitonen ja Tuomas Wichman

1992 JOENSUU MAIN LIBRARY
architects Tuomo Siitonen and Tuomas Wichman
1993 HELSINKI OPERA BUILDING
 Architects
 Hyvämäki - Karhunen - Parkkinen

1994 HELSINKI-VANTAAN LENTOASEN KOTIMAAN TERMINAILIN PYSAANITYLAIN
 Architects Pekka Salminen Oy

1994 HELSINKI-VANTAAN AIRPORT FACILITY AND PARKING
 Architects Pekka Salminen Ltd
1995 ASUNTO OY LAVAPOIKA, Helsinki
Arkkitehtitoimisto Helin & Sitonen Oy

1995 APARTMENT BUILDING LAVAPOIKA, Helsinki
Architects Helin & Sitonen Ltd

1996 ASUNTO OY MYLLYTIEN OLYMPOS, Helsinki
arkkitehti Kristian Gullichsen

1996 APARTMENT BUILDING MYLLYTIEN OLYMPOS, Helsinki
architect Kristian Gullichsen
1997 NYKYTAITTEEN MUSEO KIASMA, Helsinki
Steven Holl Architects ja Arkkitehtitoimisto Juhani Pallasmaa Oy

1997 MUSEUM OF CONTEMPORARY ART KIASMA, Helsinki
Steven Holl Architects and Juhani Pallasmaa Architects Ltd

1998 TENNISPALATSI RENOVATION, Helsinki
Arkkitehtitoimisto Nurmela - Raimoranta - Tasa Oy

1998 TENNISPALATSI RENOVATION, Helsinki
Arkkitehtit Nurmela - Raimoranta - Tasa Ltd
1999 RAISON KAUPUNGINKIRJASTO JA AUDITORIUM, Raisio
Arkitehtityöhuone Arto Palo Rossi
Tikka Oy

1999 RAISIO MAIN LIBRARY AND AUDITORIUM, Raisio
Arkitehtityöhuone Arto Palo Rossi
Tikka Ltd

2000 KINTEISTÖ OY BIOMEDICUM, Helsinki
Gullichsen Vormala Arkkitehdit Ky

2000 MEDICAL RESEARCH CENTRE BIOMEDICUM, Helsinki
Gullichsen Vormala Architects
2001 MAX PLANCK – TUTKIMUSINSTITUTTI, Dresden, Saksia
Arkkitehtitoimisto Hekkinen – Komonen Oy
MAX PLANCK – RESEARCH INSTITUTE, Dresden, Germany
Hekkinen – Komonen Architects Ltd

2001 MARIENKIRCHEN KONSERTTISALI, Neubrandenburg, Saksia
Arkkitehtitoimisto Pekka Salminen Oy
MARIENKIRCHE CONCERT HALL, Neubrandenburg, Germany
Pekka Salminen Architects Ltd
2002 STAKESIN JA SENATTAIIN KONTSTOJEN TOMMITAT, Helsinki
Arkkitehtitoimisto Heikkinen-Komonen Oy
2002 STAKES AND SENATE PROPERTIES OFFICE BUILDING, Helsinki
Heikkinen-Komonen Architects Ltd.

2002考查罰金
ASUNTO OY
SÄTERINRINNE, LEPPÄVÄRRA, ESPOO
Arkkitehtitoimisto Brunow & Maunula Oy

2002Honourable mention:
APARTMENT BUILDING
SÄTERINRINNE, LEPPÄVÄRRA, ESPOO
Architects Brunow & Maunula Ltd.
2003 Honorable mention: LEARNING CENTRE ALEXANDRIA FABIANINKATU 28, HELSINKI
Davidsson Architects
2004 Kunniamaininta:
ALEKSANTERINKADUN SILTA, Porvoo
Arkkitehtitoimisto Mekko Kaira Oy

Honourable mention:
ALEKSANTERINKATU BRIDGE, Porvoo
Mekko Kaira Architects Ltd

2004 Kunniamaininta:
KLAUKKALAN KIRKKO, Nurmijärvi
Lassila Hirvilammi Arkkitehdit Oy

Honourable mention:
KLAUKALA CHURCH, Nurmijärvi
Lassila Hirvilammi Architect Ltd

2005 KAMPIN KESKUKSEN JOUKKOLIIKENNE TERMINAALIT, Helsinki
Arkkitehtitoimisto Davidson Oy

2005 KAMPIN CENTRE PUBLIC TRANSPORTATION TERMINALS, Helsinki
Davidson Architects Ltd
Kunniamaininta
TAPIOLAN UIMAHALLIN
PERUSKORJAUS JA LAAJENNUS,
Espoo
Arkkitehtitoimisto Nurmela - Raimoranta - Tasa Oy

2005
Honourable mention:
TAPIOLA SWIMMING HALL
RENOVATION AND EXPANSION, Espoo
Nurmela - Raimoranta - Tasa Architects Ltd

Vuoden betonirakenne 2006
Concrete structure 2006
Oikorata Kerava - Lahti
2006
Kunniamaininta:
WEEGEE -TALO, Espoo
Airas Arkkitehdit Ky ja arkkitehti Henne Helander

2006
Honourable mention:
WEEGEE -HOUSE, Espoo
Airas Architects and architect Henna Helander

2006
Kunniamaininta:
ASUNTO OY TRIADI, Helsinki
Arkkitehdit Suvi ja Risto Huttunen

2006
Honourable mention:
APARTMENT HOUSE TRIADI, Helsinki
Architects Suvi ja Risto Huttunen

2007
TURUN KAUPUNGIN KIRJASTO
JKMM Arkkitehdit

2007
TURKU LIBRARY
JKMM Architects
The nature of the competition has developed during the years from a concrete structure technology – based competition into a competition towards a concrete architecture – based competition.

The sites awarded in the competition can be roughly divided into four groups:

1. The sites awarded in the 70s represented sites that were structure technologically demanding, where construction was highly visible.

2. The sites awarded in the 80s were mainly sites that were significant in publicity value and architecturally high quality constructions and thus gave positive publicity for the field.

3. While examining the sites awarded in the 90s it can be stated that a new profile was searched for the competition, where concrete technology and concrete structure technique were in a considerable position in addition to architecture.

4. The sites awarded in the 20th century represented something new alongside the goals mentioned earlier: sites in repairs and construction have emerged. On the other hand, infrastructure has appeared again with its new sites – for example Oikorata with its bridges and noise abatement wall structures.
Plastic and surfaces:

While examining the forms and shapes of the awarded sites it can clearly be noticed that the plastic qualities of concrete are being begun to use in shaping and as architectural means of emphasis.

A significant development has occurred in concrete surfaces during the history of the competition. The development of concrete technology and ways of manufacturing is clearly visible in for example the diversity of surface types.

Future?

- new and free forms and surfaces
- plasticity
- transparency
- new materials: light, washable surfaces, ...
- new mixed materials and construction: glass fibre concrete, glass mixed in concrete ...
- new products, new structures
- graphic concrete
- new coloured concrete

CONCRETE AWARD:
"BLUE MOMENT" - SCULPTURE
designed by Pertti Kukkonen