

# *First Call for Participation*

## **NAPROCK\* 7th INTERNATIONAL PROGRAMMING CONTEST**

(\* Nourishment Association for Programming Contest KOSEN, non-profit organization)

### **1. Overview**

#### **(a) Introduction:**

NAPROCK has co-sponsored the College of Technology Programming Contest (Kosen Procon) since 2008, and started to sponsor the NAPROCK international programming contest since 2009. In this year, the NAPROCK 7th international programming contest is held with the 26th Kosen Procon. This contest aims to promote flexibility of thinking through programming, at a very high level. At the contest, students from kosen or universities compete with each other by utilizing knowledge and ideas in information processing technology they have learned everyday of their lives. It is required for them to make full use of the latest and evolving information processing technology.

#### **(b) Sponsors and Secretariat:**

**Main sponsor:** Nourishment Association for Programming Contest KOSEN  
**Co-sponsor:** Technical College Association  
**Supporters:** Nextware Ltd.  
Toshiba Solutions Corporation  
Other companies contributed to Kosen Procon support to this contest.  
**Supervising college:** National Institute of Technology, Nagano College  
**Judging Committee:** Kosen Procon judging committee  
**Secretariat:** NAPROCK

#### **(c) Website:**

**NAPROCK Procon official site:** <http://naprock.jp/IntProcon/>  
**NAPROCK facebook page:** <https://www.facebook.com/naprock2008>  
**Kosen-Procon official site:** <http://www.procon.gr.jp/>

#### **(d) Important Dates and Venue:**

**Application Period:** May 22(Fri)-June 12(Fri), 2015  
**Contest Dates:** October 11(Sun)-12(Mon), 2015  
**Venue:** Hokuto Cultural Hall (1-1-3, Wakasato, Nagano-shi, 380-0928, Japan)

#### **(e) Application Qualification:**

- Students in foreign universities/institutes in cooperation with Japanese KOSEN (Institute of Technology/Polytechnic)
  - Students in domestic universities
- (\* Japanese Kosen students attending the Kosen Procon will also be automatically entered in NAPROCK International Programming Contest.)

#### **(f) Application Categories and Examination Method:**

We would like to welcome any team to develop software executable on PCs or tablets and to

participate in any of the following 3 categories:

**Themed Section and Original Section:** Both of the presentation and demonstration will be examined by the judges. The examination standard includes originality, technical capabilities of systems development, usefulness, ease of use, manual/documentation preparation, speech and presentation skills, and so on. The operation manual and program source list will also be reviewed. Each team can include 2-5 student members.

**Competition Section:** Each team competes in a progressive tournament for victory. Each team can include 2-3 student members.

**NOTES:**

Any student members CANNOT enter two or more categories at the same time.

**(g) Awards:**

**Themed Section and Original Section:**

Grand Prize: 1 team, Second Prize: 1 team, Special Prize: several teams

**Competition Section:**

Champion: 1 team, First Runner-up Prize: 1 team, Special Prize: several teams

**(h) Application Procedure:**

- Every foreign team must enter to the NAPROCK International Programming Contest **with the support of one of the Japanese KOSENs in cooperation with each university/institute.** Please ask Japanese KOSENs whether they can support your team for entry.
- Entry form should be submitted to the organizer through the supporting Japanese KOSEN during the application period.

**(i) Miscellaneous Notifications:**

**Double Registration:**

Any Student members CANNOT enter two or more categories at the same time.

**Travel Costs and Reservations:**

Travel costs should be basically covered by each participating team. NAPROCK can have financial support for foreign teams (Conditions apply). Please ask the Japanese KOSENs in cooperation with your team for the details. Flights, trains and accommodations should be basically booked by each participating team or Japanese KOSENs in cooperation with each team.

**Logistics:**

Each team should carry/transport any computers/devices required for the contest at its own risk. Please ask Japanese KOSENs if any help is required. The organizer will not supply any computers/devices.

**Demonstration Spaces:**

A demonstration space will be assigned to each team participating Themed/Original section. Each space is limited within 1800mm(w)\*1800mm (d)\*2400mm (h) including any PCs, devices as well as presenters.

**Internet Connections:**

A wired LAN connection will be supplied to each demonstration space, but each demonstration

should work even without any internet connections. Each team can use any wireless internet connections at its own risk. A wireless internet connection can also be used in the demonstration hall. The organizer is not responsible for wireless connections and communication environments.

**Intellectual Property Rights:**

Each team should deeply concern any intellectual property rights issues. Any rights should not be violated in the presented software, documents as well as presentations. All rights on the developed software are reserved by each participant. However, the organizers will use the following materials in video recording, website, guidebook or any educational purposes.

- Any documents submitted to the contest
- Photos, videos recorded during the contest
- Presentation slides used in the contest.
- Submitted data during competition matches

**Duplicate Submission:**

Any developed software should be original. Each participants cannot submit the same software to any other similar contests/competitions.

**(j) Inquiries:**

Any inquiries on the contest can be sent by e-mail to: **naprock-procon@tokyo-ct.net**

## 2. Themed Section

In Themed Section, each team is invited to propose software relevant to **measures for disaster prevention and reduction as well as reconstruction supports**.

In recent years, the people all over the world including Japan and Asian regions suffer from the natural disasters such as earthquakes, tsunamis, typhoons, heavy rains, twisters, eruptions and droughts. Many lives and properties have been lost by these disasters in every single year. It is strongly required to have sufficient provision and rapid response against the disasters as well as quick and secure restoration from them in order to protect our lives, properties and safety from these disasters that can happen in every region at any time.

It has been 3 years since Japan suffered from Great East Japan Earthquake and another earthquake in Northern Nagano region in March, 2011. The restorations of the stricken area, however, have made quite slow progress, which may make the people's memory of the disaster wear thin with time.

Each team is expected to analyze the problems in disaster prevention, disaster reduction and reconstruction support, and to propose a mean to solve such problems technically by employing ICT and the heavily stored open data. The participants can suppose these problems against generic natural disasters, and also can put stress on the reconstruction support from Tohoku earthquake in 2011. The organizers expect that this contest will be a good occasion for the participants to consider the current and actual situation in the area stricken by the earthquake in 3 years ago.

The participating students are expected to show their original ideas and extraordinary approaches and to propose fascinating systems that can lighten the disaster stricken area and Japan.

**Notes:**

-The participants can use their original peripheral devices, but the usage of the devices will also be judged. These devices cannot extend outside their own displaying booth. In addition, the participants have to set up such devices with in the designated time (approx. 40 mins.) in the contest.

- In Themed Section, it will be judged how the proposed system is suitable for the designated subject.

### **3. Original Section**

In Original Section, each team is invited to propose software developed with their original ideas and visions.

In recent years, the people use smartphones, tablets and even new devices such as wearable computers. Our daily lives have been changing rapidly with the progress of Internet including cloud computing and the use of open data. The usage of ICT and open data is one of the major challenges to solve the problems in education, ecology, food supplies, telemedicine services and more.

The originality of the proposed system is the most important factor in the judgment. The participating students are expected to propose novel, original and fascinating systems.

**Notes:**

- The participants can use their original peripheral devices, but the usage of the devices will also be judged. These devices cannot extend outside their own displaying booth. In addition, the participants have to set up such devices with in the designated time (approx. 40 mins) in the contest.

- The originality of the proposed system is the most important factor in the judgment, but it will be judged how the system shows the usability and high-quality finished form as well as the programming skills of the participants.

### **4. Competition Section**

A call for participation for Competition Section will be disclosed later on NAPROCK web site and NAPROCK facebook page.