

DATES, VENUES & COSTS

Date: Friday 15th October or Saturday 16th October 2021

This year we are giving our Global Issues Problem teams the option to participate in the National Finals on either Friday 15th October or Saturday 16th October. The choice is yours. Coaches nominate which day they will participate during the online registration process.

CmPS Interviews will be on Friday, 15th October.

The Scenario Writing Masterclass will be on Friday, 15th October.

Venue: Your school

Time: 8.30am – 3.30pm

Topic: **Personalised Medicine**

Charges: The all-inclusive charge per person covers:

- registration and participation costs in the Finals
- evaluation and administration costs
- a certificate of finals participation per student
- lapel pin only available to National Finals students

Per student \$150.00 per person (GST inc.)

Finals Polo Shirt (optional: pre-order only) \$30.00 per item (GST inc.)

Find the Polo shirt size guide at

Ladies: <https://www.jbswear.com.au/product-detail/-in-product/7BEL1>

Kids & Adults: <https://www.jbswear.com.au/product-detail/-in-product/7BEL>

CmPS Teams, please note: the cost of participation is capped at four students. Therefore, if you have less than four students in your team, please pay on a per-person basis.

If you register more than four students per team, the order confirmation will show a charge for all team members registered. The team at the FPS national office will ensure your school is invoiced correctly.

TIMETABLE

9:00am - 9:30am	Opening Ceremony
9:30am - 11:30am	Global Issues Problem Solving Competition
9:30am - 3:30pm	Community Problem Solving Competition
12:00pm - 3:00pm	Writing Masterclass for Scenario participants
11:30am - 2:30pm	Preparation for Action Plan Presentations
2:30pm - 3:00pm	Presentation of Action Plans: Heats (Record and Upload)

AWARDS CEREMONY

The result of the 2021 National Finals Competitions and Invitations to the 2022 International Conference will be announced at the National Finals Award Ceremony on October 22nd, 2021, at 1 pm AEDT, via zoom and YouTube Live.

REGISTERING FOR THE FINALS

Within one week of receiving the National Finals invitation, coaches are asked to confirm their attendance or otherwise at the 2021 National Finals via email to office@fjsp.org.au. This is a general acceptance needed for planning purposes.

Coaches have until COB on Friday 17th September 2021 to complete the National Finals Registration.

Upon receipt of registration information, the FPS National Office will generate an official Tax Invoice and email it to the coach for payment purposes. We would appreciate prompt payment of the invoice.

There is a checklist at the end of the handbook to assist in your online registration.

Changes to registration details should be emailed to office@fjsp.org.au

Please note: It is FPS Australia policy that the student listed on the cover sheet of each team/individual entry are the ones who are invited to the National Finals. If circumstances require one or more of the team to be replaced, the team coach must notify the National Director before the competition.

PUBLICATION RELEASE FORMS

The signed Publication Release & Statement of Authenticity form is mandatory for attendance at the 2021 National Finals. This form must be completed by each competitor attending the National Finals. The competitor's parent or guardian must also co-sign the form.

Completed forms should be scanned and emailed to office@fjsp.org.au before the finals.

NATIONAL FINALS WEBSITE

All Finals Information will be made available via our National Finals website.

VIRTUAL FLAGS

Instead of an actual flag, schools are requested to provide a “virtual” flag in a PowerPoint slide emailed to the FPSP office at least two weeks before the finals. These slides will be combined to create a Flag Presentation, which will be shown during the short opening ceremony

The PowerPoint slide must contain the school name, but the rest of the design is up to the team: it should be as vibrant and expressive a slide as possible. The slide can contain a picture of the team members if desired.

Please ensure the slide graphics are not on the slide master page, as this makes the merging of the slides a more complicated process and may result in your slide not being shown in its full glory.

ONLY ONE SLIDE PER SCHOOL is required, regardless of the number of teams participating from that school; however, if a school has teams competing from different campuses or in different divisions, we will allow a second slide from the school.

PHOTOGRAPHS

Participants are encouraged to take their photographs of the event and share them on the Future Problem Solving Instagram page. We will share the photos on our socials and use them to create a slideshow to present at the closing ceremony.

Photos can also be emailed to office@fsp.org.au

COMPETITION DETAILS

To simplify the information provided to you regarding the finals, refer to separate competition handbooks for each learning option. These handbooks contain the relevant rules and details of the activity your students will be completing at the finals.

MEETING FOR TEAMS/STUDENTS INVITED TO INTERNATIONAL CONFERENCE

Coaches will receive advice regarding the International Conference after the closing ceremony on Friday, 23rd October. In addition, a web conference will be held the following week.

PRACTICE FUTURE SCENE

“Bye, Mom. Be sure to take your medicine as directed. I’ll call you tomorrow. Love you.” Dr. Achirana Veliz, a Nobel Laureate in Medicine, completes the video call with her mother, aged 75. Dr. Veliz is still worried that the medications are not working as well as promised. With the new initiative she has launched, maybe she won’t have to worry so much. She hopes the initiative – Personalized Medicine for the Elderly (PME) – will improve health care for older people worldwide. Today in 2050, elderly citizens comprise 21% of the global population, with 2 billion people over age 60 and 400 million people over age 80. Many of them are facing disadvantages from a lack of personalized medicine to meet their unique health needs. Dr. Veliz hopes PME will close the gap in personalized healthcare that so many older citizens, including her parents, are currently experiencing.

When first reading reports of the clinical trials related to the medicines her parents were taking, Dr. Veliz noticed though research studies included older people, their health issues were far more complex. Elderly people were more likely to experience many chronic diseases at once, and funding for studies focusing on personalized medicine for elders was often diverted for younger patients. This may account for the inconsistent delivery of personalized healthcare to the elderly. With this realization, PME was born. The initiative’s goals are to obtain the necessary data to make personalized medicine meet the health needs of the growing number of older adults, and to promote the elderly’s use of personalized medicine globally.

The PME staff noted many trends when looking at the current state of health care for the elderly. Today, in 2050:

- People are living longer but also experiencing higher rates of age-related disorders (ARDs), such as arthritis, cardiovascular disease, neurodegenerative disease, and dementia.
- There is a gender gap for longevity: life expectancy for females is over 90 years, while for men, it is just 80.
- Male and female bodies age differently, and the longevity gap magnifies this.
- Many widely-used personalized medical treatments have been designed using data from younger people and do not work for the older population.
- Treatments for the elderly do not always consider the connections among physiological, mental, and emotional health.
- Con artists prey on the elderly by advertising unfounded health care options that may be dangerous.

PME’s gerontologists specialize in the physical, mental, and social effects of aging. They insist that extensive research is needed to design personalized medicine to meet the needs of the elderly. PME will be investigating several major reasons why personalized medical treatment for the elderly is often ineffective, including:

1. Environmental differences that impact personalized health care options for the elderly; symptoms experienced by a 75-year-old man in rural Australia may be utterly different from those of a woman in urban India
2. A lack of understanding of genetic predisposition to ARDs
3. Ineffective pharmacogenomics for the elderly (how genes affect responses to drugs)
4. Genetic algorithms for detecting genome-wide patterns that have not focused on the elderly

Dr. Veliz launched PME to address the need for personalized medicine for the increasing numbers of elderly worldwide. Use the problem solving process to identify the Challenges the PME initiative faces. Develop an Action Plan that addresses the issues in providing personalized medicine for the elderly.

KEY DATES

- ☐ 13th September Last day to email acceptance of invite to office@fsp.org.au
- ☐ 17th September Last day to register
- ☐ 8th October Last day to email signed publication releases to forms@fsp.org.au
- ☐ 8th October Last day to email virtual flag to office@fsp.org.au
- ☐ 16th October FPSP National Finals commence

REGISTRATION CHECKLIST

- ☐ Have you included the names of students attending?
- ☐ Have you ordered Polo's and provided the sizes?
- ☐ Have you provided your mobile number – FPSP will use this to contact you with any urgent questions over the holidays and during the finals weekend as required.
- ☐ Have you emailed your virtual flag to office@fsp.org.au
- ☐ Have you emailed the Publication Release forms to forms@fsp.org.au
- ☐ Have you added the FPS Phone contact number in your phone – 0455 964 646

Questions and queries can be emailed to office@fsp.org.au. We will be more than happy to answer any concerns.