



Special Award Judging

Date: Saturday 2017

Time: 8:45 am

Place: Room 2025

Judging Committee



Delfina Mazzuca-Siroen
Junior Life Science



Phil Dean
Junior Physical Science



Jeff Regan
Junior Technology



Lynn Watson-Lee
Judge at Large



Susan Koval
Intermediate & Senior Life Science



Jessie MacAlpine
Judge at Large



John Dickinson
Intermediate & Senior – Physical Science & Technology



Spencer Seiler
Special Awards



Susan Lindsay
Exhibition



Caroline Whiphey
Deputy Chief judge



Patrick Whiphey
Chief Judge

Projects 2017

Division	Life	Physical	Engineering	Elementary Exhibit	Total
Elementary					
Junior					
Intermediate					
Senior					
Total					

Students:

Divisional Judging

- Life Sciences
- Physical Sciences
- Engineering

Age Categories

Category	School Grades
Elementary	4 – 5 non-competitive
Junior	6, 7, 8
Intermediate	9, 10
Senior	11, 12,

Three Types of Projects

Experiment

Undertake an investigation to test a scientific hypothesis by the experimental method.

Innovation

Develop and evaluate new devices, models, theorems, physical theories, techniques, or methods.

Study

Analysis of data using accepted methodologies from the natural, social, biological, or health sciences.



Special Awards

Award	Category
Barfett Family Award for Social Science	Open
Bit-by-Bit Award for Emerging Excellence in Technology	Junior
Conservation Award	Junior
Engineers Choice Award	Open
Faculty of Education Award	Open
IEEE London Section Award	Open
London Public Library Award	Junior
London Regional Children's Museum Award	Junior
Research Western Imagination Prize	Jun, Int & Sen
Rotary Literacy Award	Junior
Western Engineering Summer Academy	Int & Senior
Western Fair Award	Open

Special Awards

Special Awards Chair: Spencer Seiler

- A team of Judges will be assigned to each Special Award.
- Read the Criteria for the Award.
- Junior Awards must go to Junior Projects.
- The results are to be given to the Special Awards Chair.

Special Award Timetable

8:45	Pick up folders in Room 2025
9:00	Final Instructions
9:30 – 11:30	Judging
11:30 – 12:30	Meet in 2025 to review results and select winners.

Special Awards

Before The Fair

- Look up the criteria for your award
http://tvsef.ca/?page_id=4465#special
- Scan the Project Summaries, and make a short list of projects to interview.
http://tvsef.ca/?page_id=34

At The Fair

- Do a quick walk round to check you have not missed a strong candidate.
- Interview your selected projects

Special Award Judging

- Do a scan of titles & quick walk round to select projects for an interview.
- Judge each exhibit for 8-10 minutes max.
- Revisit the projects on your short list, if necessary.
- If you are finished early, please be available to judge another award.
- Interleave with the Divisional judges who have interviews at specific times.

Share the Wealth

- It is the Policy of the TVSEF to Share The Wealth, and limit the number of awards given to one project. Thus the Chief Judge reserves the right to give an award to your second choice should one project end up with multiple awards.
- Example: The winner of a trip to the CWSF is unlikely to be given the Children's Museum Award.

Pairs of Awards with Different Winners

Each pair of awards must have different winners.

Engineer's Choice Award

IEEE London Section Award.

London Children's Museum Award

London Public Library Award.

Research Western Award

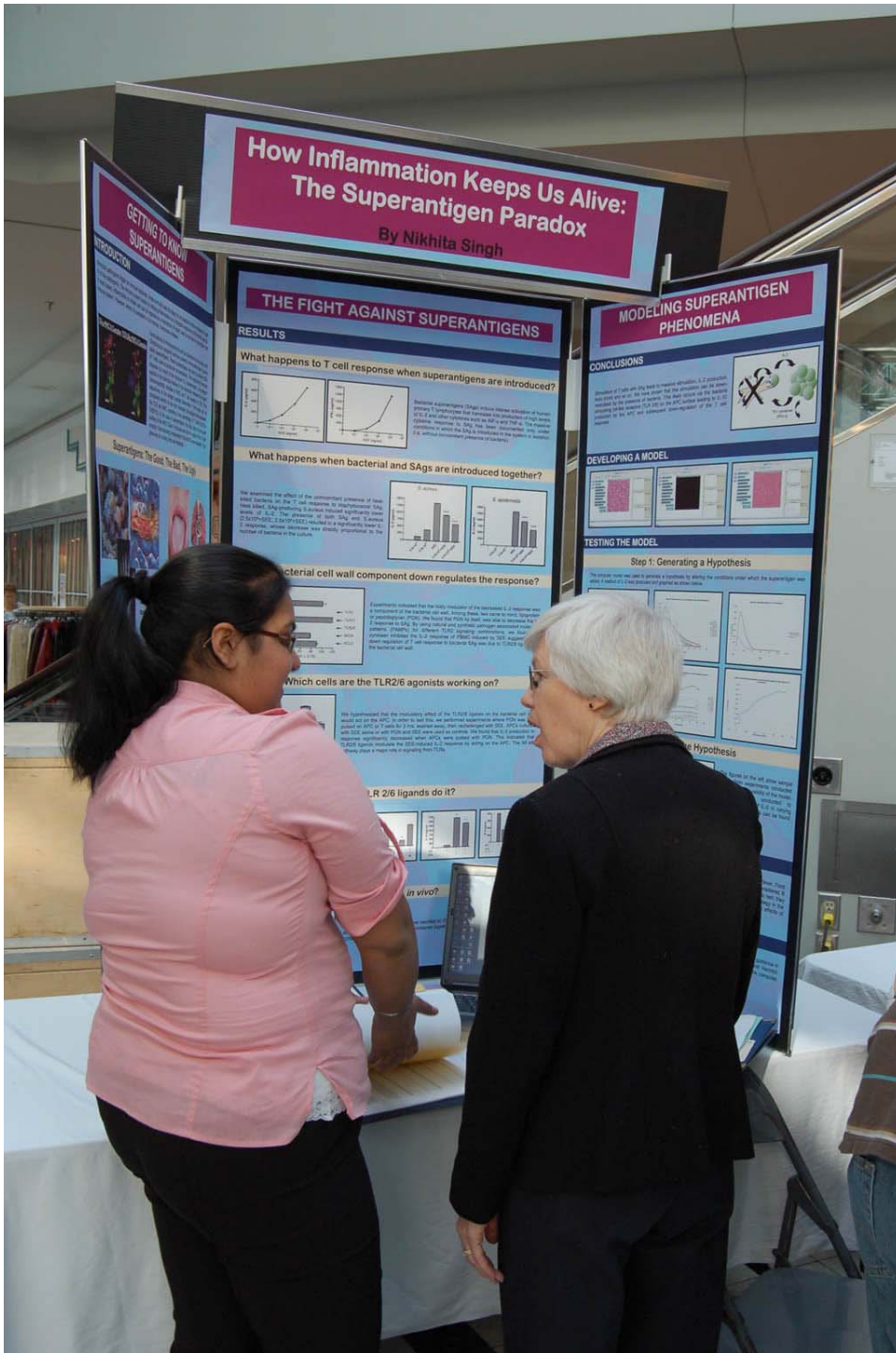
Western Engineering Summer Academy

The same project cannot win both the Engineers Choice Award and the IEEE Award

The same project can win the Engineers Choice Award and the Research Western Award

Report your Special Award Results

- Fill in your winners plus two extra choices –
- Give in full:
 - Project Number
 - Name(s) of exhibitors
 - Project Title.
- The Team Captain signs the report.
- Give it to the Special Awards Chair.



The Art of Judging

Facilitator

- Introduce yourself.
 - Where you come from, what you do.
- Ask the exhibitor to introduce her or himself.
- Listen respectfully to the presentation.
- Ask graded questions
- Stop when the limit of knowledge is reached.
- Find two things to praise.

Motivator

- Focus on the exhibitors.
- Ask questions in an upbeat tone.
- Listen intently.
- Give lots of encouragement.
 - I liked ...
 - I enjoyed ...
- Thank them for sharing their project with you.

Role Model

- You are
 - Judge
 - Scientist
 - Educational Leader
 - Business Leader
- You represent all of these aspects.
- Let the exhibitors say
That was a fantastic judging experience

Judges must not...

- Tell a student “You will get an award”.
- Convey by body language or otherwise a sense of dismay.
- Judge an exhibit seen elsewhere.
- Discuss their opinions in public areas.
- Treat this as a university examination. Over half the students are in elementary school.
- Judge an exhibit beyond their level of expertise. Contact the Division Chief for help.

Cultural Sensitivity

- In Muslim communities, it is not appropriate for girls to shake hands with men, and vice versa.
- Let the student guide you in appropriate ways of greeting.

Coaching

- Coaching can be provided by the Divisional Judges who will keep notes and include this in their decisions.
- Coaching is NOT to be provided by the Special Award Judges.

Elementary School Students

- Most judges will see only elementary school students.
- One of them may be turn into one of the best young scientists in Canada.
- The three rules:
 - Encourage
 - Encourage
 - Encourage
- Many will be studies, not experiments.

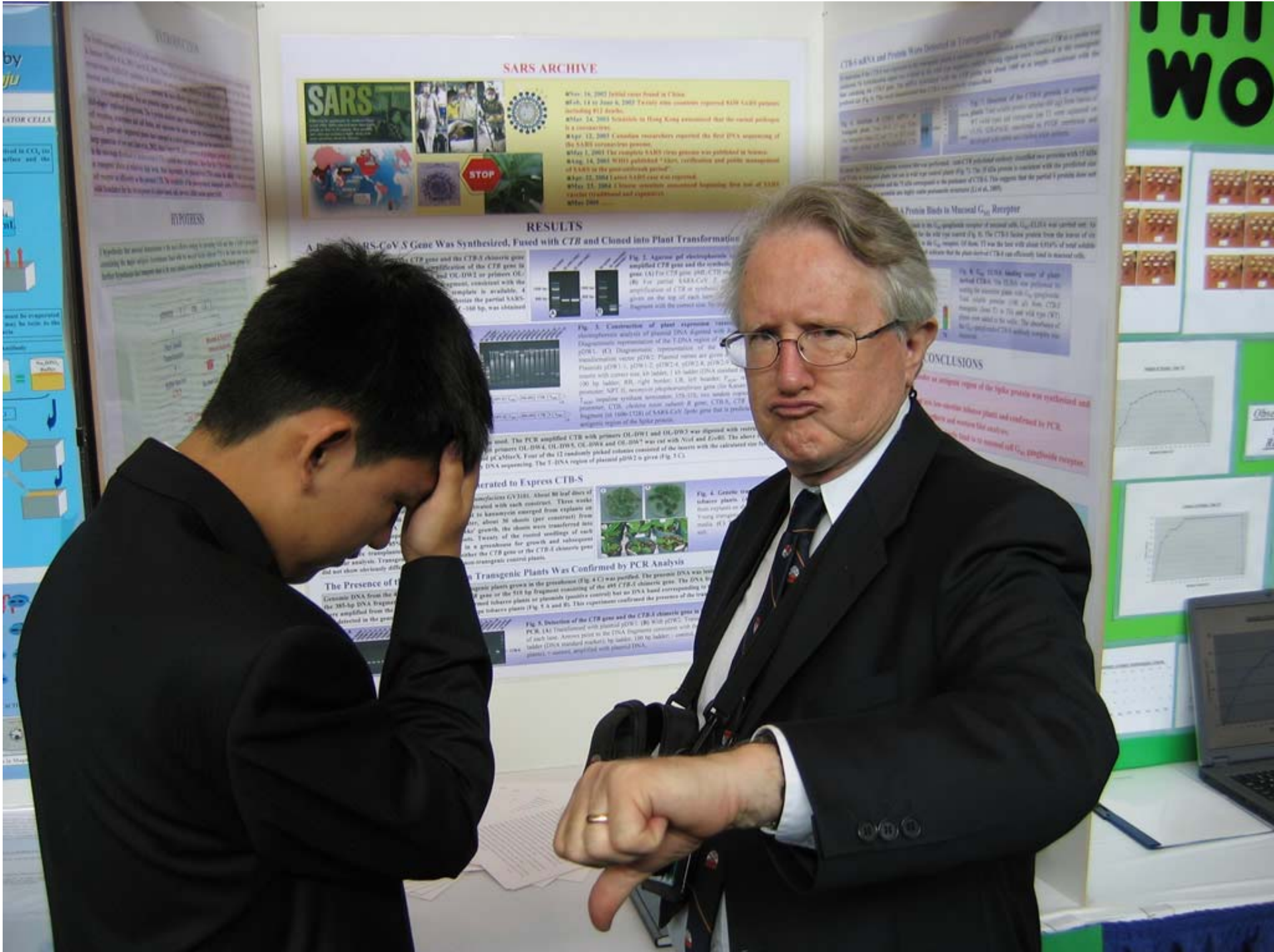


OOPS

- The following slides show various ways a judge might convey non-verbal information.
- Which is the most appropriate?



OOPS 1



SARS ARCHIVE

SARS

When 16, 2003 Initial cases found in China
 After 14 to June 8, 2003 Twenty nine countries reported SARS patients including 812 deaths
 After 24, 2003 Scientists in Hong Kong announced that the exact pathogen is a coronavirus
 After 12, 2003 Canadian researchers reported the first DNA sequencing of the SARS coronavirus genome
 After 1, 2003 The complete SARS virus genome was published in Science
 After 14, 2003 WHO published a report, confirming and public management of SARS in the post-outbreak period
 After 22, 2004 [First SARS case was reported
 After 21, 2004 SARS outbreak announced beginning first test of SARS vaccine (traditional and experimental)
 After 2004




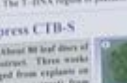


RESULTS

A SARS-CoV-S Gene Was Synthesized, Fused with CTB and Cloned into Plant Transformation

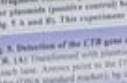
The CTB gene and the CTB-S chimeric gene...
 Fig. 1. Agarose gel electrophoresis...
 Fig. 2. Diagrammatic representation of the T-DNA region...
 Fig. 3. Construction of plant expression vectors...
 Fig. 4. Genetic transformation of tobacco plants...



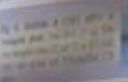
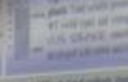
The Presence of the SARS-CoV-S Gene in Transgenic Plants Was Confirmed by PCR Analysis

Genomic DNA from the...
 Fig. 5. Detection of the CTB gene and the CTB-S chimeric gene in transgenic plants...



CTB-S mRNA and Protein Were Detected in Transgenic Plants

Transgenic plants...
 Fig. 6. RT-PCR analysis...
 Fig. 7. Western blot analysis...

A Protein Study in Mammalian G_q Receptor

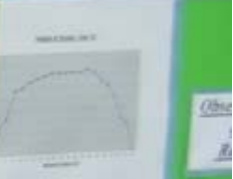
...
 Fig. 8. G_q protein...
 Fig. 9. G_q protein...
 Fig. 10. G_q protein...



CONCLUSIONS

The SARS-CoV-S gene was synthesized and fused with CTB...
 The presence of the SARS-CoV-S gene in transgenic plants was confirmed by PCR analysis...
 The CTB-S mRNA and protein were detected in transgenic plants...

THE WO



OOPS 2



OOPS 3



Best

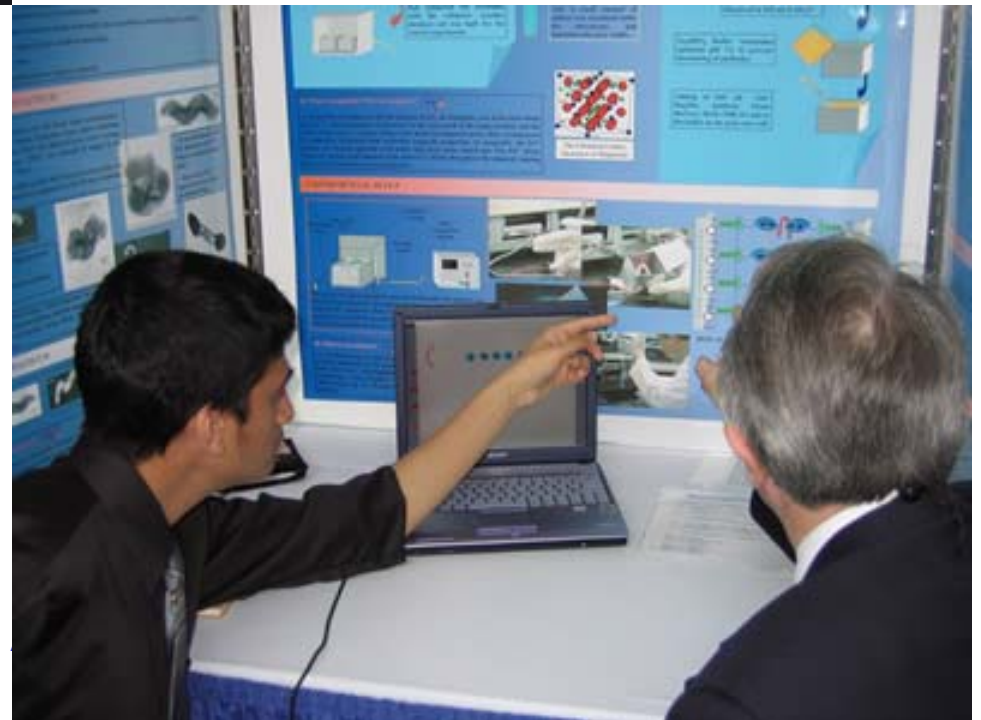


Body Language

Which do you
Prefer?

25-Apr-16

TVSEF Special



Cerebral Palsy

One judge was so “appalled” that the student used “retarded” in the presentation, he gave him a 6.

I was quite shocked as to how unprofessional their judging comments were and how hard they were on the students.

I did not write down this judge’s comments in the amalgamated feedback form as his comments were cruel and would have crushed a little child’s spirit.

I have children that are just beginning school and I would never let them enter a competition that so unfairly judges them

Be aware of your own biases

Contacting a participant after the Fair

If you wish to contact a student after the Fair, for example to offer extra advice or research support, you must contact the Chief Judge who will initiate contact on your behalf

Judges may not contact school students directly, outside their role as judge.

Name Badge

- Please hand these in before you leave so we can use them next year.

Acknowledgements

We wish to thank these participants who have allowed elements of their superb science fair projects to be used in this workshop.

- Kartic Madiraju - Montreal
- David Wang – London