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See three problem-solving lessons taught by an internationally acclaimed expert







# 22-23 April 2016

O'Brien Centre for Science UCD, Belfield, Dublin 4

> 3<sup>RD</sup> ANNUAL CONFERENCE

A national Conference for all post-primary mathematics teachers

> Meet fellow teachers involved in the Reflections on Practice initiative

Listen to Irish teachers speak of their success in teaching problem-solving lessons







# **Reflections on Practice**

# Structured Problem Solving in Irish Classrooms

The Project Maths Development Team is pleased to announce that a Mathematics Conference will be held this year in University College Dublin. A wide range of presentations based on problem solving lessons will be offered by teachers. These problem-solving lessons arise from teachers' participation nationally in Reflections on Practice. This initiative captures and promotes individual and school group collaborative planning of a research lesson plan, classroom observation of how the lesson plan unfolds and post-lesson discussion on students' problem solving strategies and engagement in the classroom. The Conference aims to disseminate teachers' problem solving strategies and real classroom experiences focusing on students' learning. It will be of particular interest to post-primary mathematics teachers and third level personnel involved in initial teacher education. This is a must-attend conference with Professor Akihiko Takahashi teaching a series of three live problem-solving lessons to a class of post-primary students.

Register now to join us in UCD on 22nd and 23rd April

# **Keynote Speaker**

Mathematics educator Dr. Akihiko Takahashi is an Associate Professor of mathematics education at DePaul University in the United States and a Specially-Appointed Professor at Tokyo Gakugei University in Tokyo, Japan. He has served as Visiting Professor at National Institute of Education in Singapore, National Science University Malaysia, and Khon Kaen University in Thailand. At DePaul University he lectures in mathematics teaching and learning, and mathematics for prospective teachers and practicing



teachers. He was a teacher in Japan before becoming an educator of mathematics teachers. During his teaching career, he was nationally active in mathematics lesson study in Japan. He received his Ph.D. from the University of Illinois at Urbana-Champaign; his dissertation research focused on internet use in mathematics education. He has published over 45 journal articles and book chapters and given over 50 presentations and keynotes at conferences and workshops in Canada, Chile, Indonesia, Japan, Korea, Malawi, Malaysia, Mexico, Philippines, Qatar, Singapore, Thailand, Uganda, the United Kingdom, and the United States.

# Sponsored by







## Friday 22nd April

18.00 Registration 18.30 Welcome by Dr. Anne Brosnan and Official Opening by TBC 19.15 Keynote address by Dr. Akihiko Takahashi Dr. Takahashi will teach a problem-solving lesson to a group of students live in the George Moore Auditorium 21.00 - 22.00 Wine & Canapé Reception Saturday 23rd April 09.00 - 09.30 Registration

09.30 Series of live problem-solving lessons to be continued by Dr. Takahashi 11.30 - 16.15 Presentations by teachers who have been engaged in *Reflections on Practice* nationally throughout the year on various topics.

## CLOSING DATE FOR REGISTRATION - Wednesday, March 23rd 2016

#### **Questions and Answers**

1. Who is the Conference for?

It is for every teacher of Mathematics at post-primary level and personnel engaged in initial teacher education.

2. Who is organising it?

The Conference is being organised by the Project Maths Development Team, www.projectmaths.ie

3. Do I have to attend on Friday AND Saturday?

No, you can attend on Friday only, or Saturday only, or both days.

4. How much does the Conference cost?

The Conference costs €35 per person. This covers every aspect of the Conference, including wine reception on Friday and hot lunch on Saturday but you must indicate on the registration form if you will be present for lunch.

#### 5. How can I register?

A Registration Form (back page) must be completed and returned to this office ASAP. Photocopies of the form can be used. Or alternatively, you can download a copy from the website www.projectmaths.ie. You will have an opportunity to attend 5 of 25 parallel sessions. Every effort will be made to give you your 1st choices, however priority will be given to those who register early.

#### 6. How will I know that I am registered?

An email will be sent to you confirming receipt of your registration form. Please make sure to provide an email address on the registration form.

#### 7. Can I register on the day?

No.

- 8. Will travel & subsistence expenses be paid? No.
- 9. What about accommodation?

You are responsible for securing and paying for your own accommodation.

10. Any other information? There will be an exhibition of stands at the Conference from companies/ organisations that relate to Mathematics and to education.



#### Schools involved in Reflections on Practice

- St. Michael's Secondary School, Finglas 1. Chanel College, Coolock Village, Malahide Road 2. St. Fintan's High School, Sutton 3. Fingal Adult & Further Education Ctr, Balbriggan 4. Deansrath Community College, Clondalkin 5. 6. Coláiste Chú Chulainn, Dundalk St. Fintina's Post Primary School, Enfield 7. 8. St. Oliver's Community College, Drogheda Drogheda Grammar School, Drogheda 9. Coláiste Bríde, Enniscorthy 10. Presentation College, Currylea, Tuam 11 Coláiste Cholmáin, Claremorris 12. Seamount College, Kinvara 13. Coláiste lognáid S.J., Galway 14 Gairmscoil Einne, Inis Mór - Oileann Arann 15. 16. St. Michael's College, Listowel Coláiste Dún Iascaigh, Cashel Road, Cahir 17. Scoil Aireagail, Ballyhale, Kilkenny 18. Ramsgrange Community School, New Ross 19. Ardscoil Na Mara, Tramore 20. Rockwell College, Cashel 21. Christian Brothers School, Carrick On Suir 22. St. Mark's Community School, Tallaght 23. Coláiste Bhride, Clondalkin 24. Professor Takahashi teach problem solving lessons live want to miss A prime location to meet up with colleagues

25.	John Scottus Secondary School, Donnybrook
26.	Killinarden Community School, Tallaght
27.	Holy Family Secondary School, Newbridge
28.	Lucan Community College
29.	Midleton College, Cork
30.	St. Aloysius School, Cork
31.	Our Lady's Secondary School, Castleblayney
32.	Largy College, Clones
33.	St. Tiernan's College, Crossmolina
34.	Coláiste Mhuire, Tuar Mhic Éadaigh
35.	St. Louis Secondary School, Kiltimagh
36.	St. Leo's College, Carlow
37.	St. Mary's Academy C.B.S., Carlow
38.	Carndonagh Community School, Lifford
39.	Errigal College, Letterkenny
40.	Deele College, Raphoe
41.	Loreto Community School, Milford
42.	Pipers Hill College, Naas
43.	Rathdown School, Glenageary, Dun Laoghaire
44.	Dunshaughlin Community School
45.	St. Flannan's College, Ennis
46.	Glenstal Abbey School, Limerick
47.	St. John Bosco Community College, Clare
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- Kilrush Community School, Clare 48.
- Children's Ark School, U.L. Hospital 49.

# Maths Counts 2016 offers you a unique and engaging opportunity to see

### At Maths Counts you will receive problem-solving lesson plans you won't

Discover how you can get involved in Reflections on Practice next year

#### Visit the exhibition area and learn about Classroom Resources

### Receive a complete pack of digital resources for presentations you attend

Saturday	Programme		ations below and indicate your de to give you your 1st choices,	, , , , , , , , , , , , , , , , , , ,
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		9.00 - 9.	.30: Registration	
	9.30 - 1	.1.00: A Continuation of the L	ive Series Conducted by Prof	essor Takahashi
		11.00 - 1	1.30: Tea/Coffee	
		PRESENT	TATIONS BELOW	
TIME				
11.30 - 12.15	Introducing algebra with Snooker	The relationship between the volume of the cylinder and its radius <b>2</b>	Representing Simultaneous Equations Graphically 3	Exploration of Prop of Basic Geometric
12.15 - 13.00	Deepening the Understanding of the Properties of Parallelograms 6	A Quick Way to Add Numbers 7	To Be or not To Be: Congruent Triangles 8	Discovery of the equ circle with centre
		13.00	- 14.00 - Lunch	
14.00 - 14.45	Introducing Theorem 19	A fixed perimeter does not imply a fixed area 12	An investigation to maximise the capacity of a triangular irrigation channel by varying the channel depth 13	Polly's Sum Sel
14.45 - 15.30	Understanding & Appreciating Axiom 4 and its Value when Solving Geometrical Problems 16	Using corresponding sides in similar triangles to find missing lengths 17	Re-Thinking Teaching Patterns 18	How Many People wil ed at 10 Tables A Linear Patterns P
15.30 - 16.15	Introduction to Solving Linear Equations 21	Geometry: Types of triangles	Finding the minimum combined area possible by sizing two Rectangles 23	Problem Solvii in Geometry

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