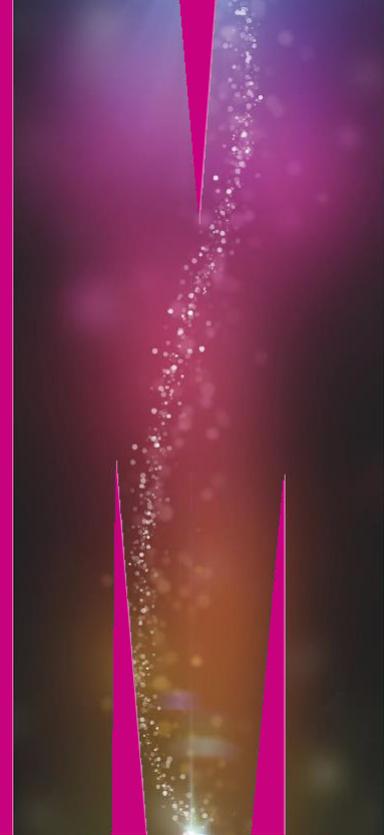




Guest Lecture: Creating Structures to Develop Early STEM Talents: Pipelines, Pigs, and Pumping Stations

Professor Ann Robinson

University of Arkansas at Little Rock



Start early to engage talented students in STEM! An outcry over the lack of engineers and scientists sends schools scrambling to encourage students to pursue STEM careers. Advanced learners are an obvious STEM talent pool, but schools often wait until secondary grade levels to engage students systematically in STEM disciplines, particularly engineering. Engineers tell us that if we don't see a healthy flow from a pipeline, check the source. In schools, the source is in primary classrooms. How teachers engage young students in domains like engineering and science when early grades concentrate on literacy and numeracy matters. How we address stereotype threats that clog the talent pipeline and affect STEM interests, confidence, and accomplishments matter.

This lecture focuses on the programmatic structures, research results from multiple studies, and practical lessons learned from best practices that address the constraints of poverty, engage young learners in engineering, report reduced excellence gaps between advantaged children and children from low-income households, and scale up successfully in schools. Attendees will receive our talent-spotting protocol, curated digital links to instructional resources, and an educator-friendly briefing sheet of evaluation results to share with school decision-makers. Our achievement, engagement, and talent-spotting successes with primary grade gifted children are supported across eight years of projects funded by the U.S. Department of Education. The strategies and structures developed through these projects and their companion research studies are sustainable and transportable to international settings.

DATE

Wednesday 7 March 5.00pm-6.00pm

VENUE

Room 2.42, Second floor, Learning and Teaching Building, 19 Ancora Imparo Way, Monash University, Clayton campus.

Refreshments will be served from 4.30pm in the informal space next to room 2.42. Lecture to commence at 5pm.

Supported by the Victorian Department of Education and Training (DET) and the Association for Gifted and Talented Education Victoria (AGATEVic)

REGISTRATION

To register for the lecture please register via the following [form](#)

Limited places available.

Closing date for registrations Friday 2 March.

The lecture will be streamed via Zoom for those who cannot attend in person.

Join from a PC, Mac, iPad, iPhone or Android device:

<https://monash.zoom.us/j/724295115>

Telephone dial in: +61 2 8015 2088

Webinar ID: 724 295 115

Toll-free dial: +61 18 0089 3423 (US/Canada only)

For international numbers please click [here](#)

ABOUT PROFESSOR ROBINSON

Ann Robinson is Professor of Educational Psychology and Founding Director of the Jodie Mahony Center for Gifted Education at the University of Arkansas - Little Rock. She is past president of the U.S.A. National Association for Gifted Children (NAGC), a former editor of the Gifted Child Quarterly, and has been honored by NAGC as Early Scholar, Early Leader, Distinguished Scholar and for Distinguished Service to the association. She is an Associate Editor of Gifted and Talented International and a Delegate to the World Council on Gifted, Talented, and Creative. Ann developed five U. S. Department of Education projects including two STEM research and demonstration programs for elementary students and teachers. She is the lead author on the best-selling Best Practices in Gifted Education: An Evidence-Based Guide and co-editor of A Century of Contributions to Gifted Education: Illuminating Lives. Her Blueprints for Biography curriculum guides provide teachers with strategies for differentiating non-fiction reading for talented students.

