

STEAM Opportunities for Schools – Autumn 2018

This Autumn, we have a range of opportunities to engage your students in Science, Technology, Engineering, Arts and Maths.

STE(A)M Ahead Symposium for Education Professionals

Tuesday 6th November 9.30am-5.30pm at 20-21 Visual Arts Centre

"Spelling STEM with an 'A': because art connects"

A one day symposium featuring keynote speakers, case studies from teachers, discussions, a choice of practical sessions and a networking lunch.

20-21 Visual Arts Centre and Inspired Learning will host their first STE(A)M Symposium with the overarching theme of encounters in Arts and Science.

The day will explore how schools can use creative arts to inspire students, improve results in core subjects and develop young people who are ready for further study, leaving education with a full range of 21st century skills.

The symposium will be a call to action for teachers and professionals interested in arts and STEM education, featuring national speakers from SteamCo, Arts Council England, IVE, University of Sheffield, University of Plymouth and University of Hull, with a mixture of keynotes, case studies, discussions and practical sessions.

All delegates will receive a complementary ticket to see Motionhouse perform the electrifying dance-show *Charge* at The Baths Hall in Scunthorpe the same evening. Inspired by the role of electricity in the human body, this multi-media show uses digital projections to create a world on stage where dancers and images interact. For more information about the performance, visit <http://www.scunthorpetheatres.co.uk/whats-on/charge/>

Booking information: the day is £60 per delegate, including refreshments. To book, visit <http://servicesforeducation.org.uk/Event/81786> or contact the team on courses.team@northlincs.gov.uk or phone 01724 298420.



Motionhouse *Charge*

Tuesday 6th November 7.30pm at The Baths Hall

Workshops: w/c 29th October in advance of their performance, schools are invited to book workshops with Motionhouse, providing all young people with the opportunity to work with a professional dancer, learn about the themes of the show, be inspired by science and improve their own movement skills.

Performance: Motionhouse will perform their exciting fusion of dance and science *Charge* at The Baths Hall at 7.30pm on Tuesday 6th November, inspired by the role of electricity in the human body. This multi-media show uses digital projections to create a world on stage where dancers and images interact, and is ideal for ages 8+. The performance will be followed by an opportunity to meet the Director and dancers, to discuss about the show and ask questions.

Education Pack: As a unique collaboration that draws together art and science, *Charge* is ideally placed to engage young people with scientific themes and ignite a curiosity and interest in the bio-electricity of their own bodies. Teaching Resources related to *Charge*, provided by Motionhouse include: scene-by-scene analysis and interpretation; 30+ questions and research tasks; behind the scenes rehearsal footage and interviews; and 12 fully-developed practical workshops examining *Charge* ideas and techniques.

Book a full day workshop (or 2 x half days to fit in with your timetable), **receive 25 complimentary tickets to *Charge* and a copy of the comprehensive education pack, all for £300** (a half day workshop is also available as a package with tickets for £200). To book, contact inspiredlearning@northlincs.gov.uk. Alternatively, performance tickets are £6 each and available directly from The Baths Hall.



Metabolon Schools Workshops

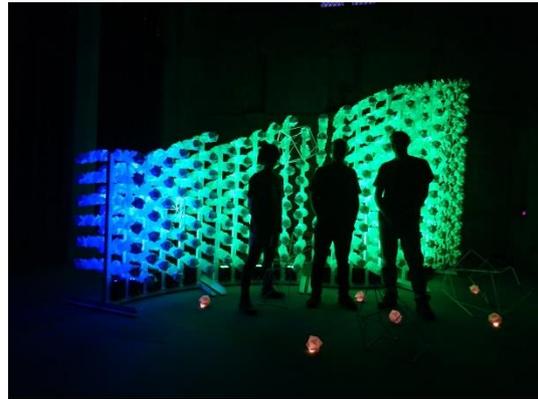
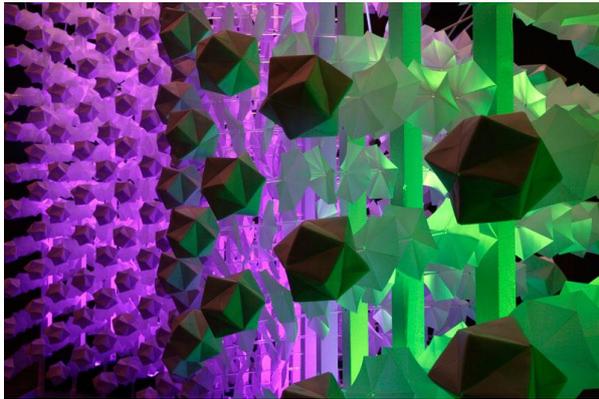
Monday 12th November 2018 at 20-21 Visual Arts Centre

Exhibition: 27th October to 5th January at 20-21 Visual Arts Centre. Biochemist Dr Nathan Adams from University of Sheffield has teamed up artists Seiko Kinoshita and Darren Richardson to bring the scientific data to life in this mesmerising and beautiful sculptural installation that combines digital lighting with exquisite paper folding.

Workshops: Explore the themes of the installations with hands on scientific experiments and practical explorations of origami. Workshop sessions will include: Exploring Enzymes with practical science to discover how potatoes break down hydrogen peroxide; Shape, Charge and Function with the goal of building molecules; and Origami.

Sessions for Key Stage 2 or Key Stage 3 are available at: 9.30-10.45am or 11am-12.15pm. Workshops for Key Stage 4 are 1-3.20pm (this session will be more in depth including discussion about Chlorophyll).

Booking: with funding from the National Lottery through Arts Council England, these workshops can be offered for **free**, for a maximum group size of 30 students. Email inspiredlearning@northlincs.gov.uk to book.



***Machines in the Trees* Exhibition by Martin Smith**

Saturday 13th October to Saturday 2nd February at 20-21 Visual Arts Centre

Kinetic artist Martin Smith makes beautifully crafted moving sculptural works that can't help but bring a smile to viewer's faces. *Machines in the Trees* comprises of three metal, mechanical trees, that each react in different ingenious ways to viewers passing beneath.

Workshops: Martin has 20 years experience as a practicing artist, with work ranging from small kinetic devices to large-scale gallery commissions and architectural interventions.

Book a Mechanical Bubble Machine workshop to get hands on using Martin Smith's processes. Taking illusions and clever tricks-of-the-eye as the theme, each participant will use wire and aluminium to model, form and articulate a hand held mechanical bubble machine. The focus will be on a simple wire lead screw as a device for transmitting movement and the intention is to make a simple mechanical device by the end. He will introduce and demonstrate how to use small pliers to sculpt soft wire and aluminium, using these basic techniques the participants will successfully make the necessary parts to create a fantastic 3-dimensional moving kinetic toy, which can then be painted and personalised. The workshop will encourage participants to observe and investigate a variety of materials and processes.

These workshops cost £300 per day and this would include an artist talk alongside the exhibition in the visit. Email inspiredlearning@northlincs.gov.uk to book.