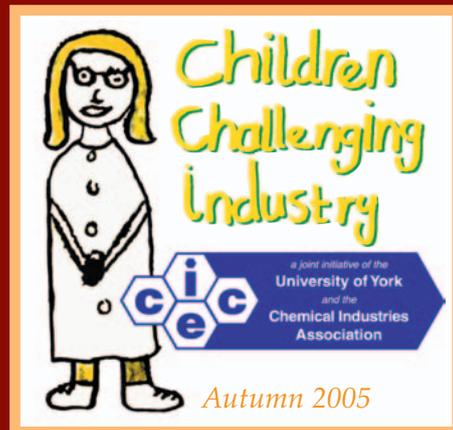


Welcome to our Autumn newsletter, which presents you with both successes from 2004-5, and a look ahead to 2005-6. We continue to work with over 30 schools in each region, and I am pleased to announce the arrival of Tanya Shields, picking up the Humber baton from Gayle Pook. Tanya is based at Humber Chemical Focus, and thus all of the advisory teachers now have very close links with the chemical initiatives in their regions. This close link with industry dramatically improves contacts with our industrial partners across the north of England. We have created strong and positive links with the newest of these organisations, Yorkshire Chemical Focus, as you will see from the article written by Jane Mockford, CEO. As we receive many letters and booklets of thanks from primary schools across the regions, it is wonderful to see the contribution by St John Fisher Primary School, who now have annual involvement in **CCI**.

Enjoy the newsletter, and if you would like to contribute an article with your perspective on the project, please do not hesitate to contact me.
 – **Joy Parvin**, Primary Projects Manager



CCI PROJECT NEWS

Celebrating Children Challenging Industry in the North

Three Children Challenging Industry (**CCI**) regions recently held their 'celebration' events in their respective regions.

These annual events give all those involved with the project a chance to get together and share and discuss the year's work. Apart from the core **CCI** team from the University of York, invited guests included teachers involved or interested in the project, local industrialists who have hosted site visits, or wish to do so, and of course - the children!

Tom Swan, whose initial ideas and financial support started the **CCI** project, opened the Tees Valley day. This was followed by a national overview of **CCI** (Allan Clements, CIEC Director), highlights of the year, (Nicky Waller, Tees Valley **CCI** Advisory Teacher), an industrialist's perspective of hosting a **CCI** site visit (Anthony Smith and Howard Dawson from SembCorp and Uniqema) and a very professional PowerPoint presentation by the pupils of Wilton Primary School showing a child's view of taking part in **CCI**.

The North West celebration followed a similar format and hosted an impressive array of eleven companies giving demonstrations and nine local primary schools presenting their practical work.



Pupils from the Tees Valley demonstrating a CCI activity

At the event organised by Bradford **CCI** teacher Michele Smale, pupils from Salterhebble, Headfield and Ingrow Schools all demonstrated **CCI** activities and enthusiastic companies present included Brothertons, Yorkshire Water, Yorkshire Chemical Focus and Electronics Yorkshire. The events were hailed as great successes and both the organisers and participants felt the day was worthwhile. Following the events, new companies have expressed interest in joining the **CCI** project, which in turn will enable more schools to participate.



An animated explanation for the Mayor of Halton



Salterhebble Primary School pupils from Halifax busy with a 'Pinch of Salt' activity.

"I'd like to congratulate you on a spectacular festival on Monday. The parents who accompanied me were so impressed. They couldn't believe how much science teaching and learning has moved on since their school days. The children were really excited and couldn't wait to tell all their friends about it. You must have worked extremely hard and I would say it was well worth the effort. I hope you continue to go from strength to strength. Well done!"

Jane Bowyer, teacher at Culcheth Primary School



Yorkshire & Humber Regional Development Agency

THE TEES VALLEY

CCI advisory teacher chosen to promote *Aspire* in the North East



Nicky Waller, now a 'talking head' for the *Aspire* initiative in the North East.

Research has shown a huge problem with the career expectations of young people in the North East. Only 40% of school pupils believe they will be able to get the job they want in the region, and even less, plan to stay and work locally.

To address this problem, some of the largest business organisations and the public sector in the North East have launched the *Aspire* initiative. *Aspire* intends to raise educational achievements in order to boost the local economy. It will help young people (aged 14-19) find and achieve their chosen career in the North East.

North East Process Industries Cluster (NEPIC) has nominated the Children Challenging Industry advisory teacher from the North East to be a 'talking head'. To this end, Nicky Waller has been recorded describing her job and how her career has developed in the North East. The talk will be used by *Aspire* to emphasise the excellent jobs and opportunities available in the North East.

Aspire has been endorsed by Tony Blair, "*Aspire* is an important campaign for the North East, but more importantly has implications at a national level. It has my full support and both I and David Miliband, who is personally involved in the campaign, will be watching its progress and impact with great interest."

Figures for the Tees Valley 2004-2005

Number of schools taking part	30
Number of children taking part	863
Number of teachers	330
Number of site visits	30
Company training sessions	7

THE NORTH-WEST



Catalyst Science Discovery Centre and CCI join forces

Young scientists across the North West will benefit as CCI and the Catalyst Science Discovery Centre in Widnes join forces.

Sue Andrews, the CCI advisory teacher for the region, already works closely with Catalyst and has been invited by the Trustees to join Catalyst in an advisory capacity within their education department.

Catalyst Director, Julie Burgess-Wilson said, "For some time we have been exploring ways to strengthen the connection between Catalyst and CCI. We believe this will further harmonise our efforts for the benefit of the children, schools and industry with whom we work. I'm really pleased that Sue has agreed to take up the challenge."

With Sue's expertise in delivering CCI across the region since 2000, she is in an ideal position to lead the education vision and strategy for Catalyst. Commenting, Sue said "It's a great opportunity to work with the team at Catalyst and further promote science across the region's schools."

It is also hoped that Catalyst will become a centre of excellence for CCI's sister project, the Primary Science Enhancement Programme.

Young visitors enjoying Catalyst Science Discovery Centre



CCI PROJECT NEWS

The Great Primary Science Resource Box Giveaway

Primary Science Boxes containing CIEC resources have been distributed in three CCI regions during the summer. The resources (for 4-11 year olds) are context based and include lesson plans and photocopiable activity sheets.

Monica Gladman, a primary science advanced skills teacher from Burtonwood Community Primary School, received her box with great enthusiasm, "In Warrington, we are keen to promote innovative ways for children to experience enriched curricular experience through science. **Children Challenging Industry** does just that." Chemicals North West sponsored the packs distributed in the North West.

Tanya Shields presented boxes sponsored by the Humber Learning and Skills Council and Yorkshire Forward. Bruce Spencer, the Science Coordinator at Berkeley Junior School, Scunthorpe was the recipient of one of the 38 boxes distributed in the Humber Bank region. (See picture opposite).

Learn2work has sponsored the Tees Valley region boxes and Nicky Waller has had the pleasure of distributing them, "All the schools have been delighted with the range of resources that cover different aspects of the curriculum in a wide variety of contexts."



Monica Gladman of Burtonwood Community Primary School receiving her Primary Science Resource box

THE HUMBER REGION

Tanya describes her career path to date, and what has led her to become a **CCI** advisory teacher:

“After training in Nottingham I began teaching at Berkeley Junior School in Scunthorpe. During my seven years I have been actively involved in a variety of projects ranging from whole school curricular developments to LEA initiatives. Some of my most recent work includes:

- Planning and delivering a Science Challenge day for Gifted and Talented children.
- Working for Study United to develop teaching materials for Key Stage 1 and 2.
- Through working with the **CCI** team at York, I have become involved with the National Science Learning Centre to develop training programmes for science coordinators.

During my own time I am working towards my National Professional Qualification for Headship (NPQH), and I am a community governor at Berkeley Junior School.

Taking part in **CCI's** sister programme, the Primary Science Enhancement Programme, led me to apply for this post. My contact so far with the schools in the Humber region has been very rewarding. Investigative science and problem solving set in context seem to get the children and teachers working so well together. Not only are they learning about science and industry, they are having great fun! //

Tanya Shields becomes the CCI advisory teacher for the Humber region.



Tanya presents a Primary Science Resource Box to Bruce Spencer, the Science Coordinator at Berkeley Junior School, Scunthorpe.

Figures for the Humber Region* 2004-2005

Number of schools taking part	9
Number of children taking part	292
Number of teachers	38
Number of site visits	8
Company training sessions	0

*Data is for September 2004-January 2005

CCI PROJECT NEWS

Spring Term winner of the prize draw

Mrs Giles and Ruth Proudman were delighted that their school won the Spring Term prize draw. Hillcrest Community Primary School have received a cheque for £50 to spend on science equipment.



More home-made bubble blowing-equipment in Bangalore

Kitchen Concoctions goes to India



Students in Bangalore carrying out the bubbles activity from Kitchen Concoctions.

Di Stead and Lois Kelly, of Liverpool Hope University, used the bubble challenge, from *Kitchen Concoctions*, to teach scientific skills to the students at Notre Dame Junior Education College, Bangalore.

The students were very ingenious and used everyday and recycled materials to make bubbles. Some used washing soap and their hands while others used the plastic ring from the top of a water bottle linked to a piece of wire.

One of the biggest challenges these students will encounter in their teaching careers is a large class size of 60 children in very small classrooms. Many of the students will work in rural areas where resources are in short supply.

Di and Lois were teaching at the teacher training college in Bangalore as part of the work, carried out throughout India and other parts of the world, for the charity Hope One World based at Liverpool Hope University.

THE NORTH-WEST

St John Fisher School enjoys well-established link with CCI

Gerry Fallon, Head teacher from St John Fisher School shares his impressions of the **CCI** project.

"This is the fourth year in which the school has participated in the Children Challenging Industry scheme run by the University of York and involving local industry.

We have found that the whole project has transformed the attitudes and approaches to science throughout the school and are keen to continue our partnerships, which, no doubt, will yield the all-important scientists of the future.

My thanks in particular go to Sue Andrews, whose vitality and interest is infectious and crucial in stimulating the children. This is achieved through Sue's practical science in the classroom, which provides a real understanding of scientific processes and the purposes and uses of science in our world. I'd also like to thank Bayer Crop Science in Widnes, in particular Steve Tynegate and his team, without whose support and interest the project would be much less vital. The firm goes to extraordinary lengths to involve the children in the role of science and sets up demonstrations, experimental work and practical problem solving."

Gerry Fallon, Head teacher,
St John Fisher Primary School.



Bayer Crop Science hosts another of their memorable visits.

Figures for the North-West 2004 - 2005

Number of schools taking part	28
Number of children taking part	967
Number of teachers	274
Number of site visits	21
Company training sessions	9

WEST YORKSHIRE

My CCI experience



Children from Headfield School immediately recognised parts of the plant when they were on site at Rohm & Haas

With the launch of Yorkshire Chemical Focus this month, the **CCI** team are pleased to receive the impressions that the **CCI** project have made on the Chief Executive Officer Jane Mockford.

"I was delighted to experience the **Children Challenging Industry** programme, thanks to the advisory teacher, Michele Smale, two Year 5 classes at Headfield School, and Helen White and colleagues at Rohm & Haas in Dewsbury. I attended the first and last lessons of the Water for Industry project and the site visit, all in the same week.

What were my impressions?

The *Water for Industry* lessons are built around real problems. The children are asked to act as consultants and form companies in which each team member has a defined role. I enjoyed seeing children drawn into participating because it was expected of their 'job role', whilst others had to restrain their enthusiasm to answer everything. It reminded me of management training sessions in industry.

Within 15 minutes of starting, the class were using a plant line diagram (in the form of a picture of the factory) to discuss where the problems might be. I never had the opportunity to do that whilst I was at school.

The experimental programme to recommend sealants for leaky pipes was based on sound scientific principles backed up by good experimental practice. It was reassuring to see that, like all good scientists, the class had their pet theories as to which solution would be best!

Many of the children immediately recognised parts of the plant when they were on site at Rohm & Haas. The work in the classroom clearly 'demystifies' what can be an overwhelming effect of a full-scale plant.

Many chemists will tell you that their interest in the subject was catalysed by something they saw or heard when they were at school. I saw that in the enthralled expressions on the faces of some of the children during the site visit as they were listening to their tour guide."

Jane Mockford, CEO, Yorkshire Chemical Focus

Figures for West Yorkshire* 2004 - 2005

Number of schools taking part	44
Number of children taking part	1443
Number of teachers	450
Number of site visits	20
Company training sessions	3

*Data for Bradford, previously provided separately, have been merged with West Yorkshire data. Bradford data is for September 2004 - February 2005.

Contacts

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