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Outreach Project

Who is involved?

The Kitchen Chemistry Outreach Project is a partnership between [Scifest Africa](http://www.scifest.co.za) and the "Kitchen Chemist", Dr Stephen H. Ashworth. Dr Ashworth has over fifteen years' experience of communicating science and has built up a portfolio of shows, workshops and busking.



Where does it take place?

Scifest Africa is based in Grahamstown in the Eastern Cape, but the Kitchen Chemist has toured throughout South Africa. Kitchen Chemistry has been seen in schools and science centres from Malmesbury to Malalane, Kimberley to Cape Town, and from Newcastle to Knysna. A complete list of the activities of The Kitchen Chemist can be found in the [Kitchen Chemistry Calendar](#) and the associated pages.



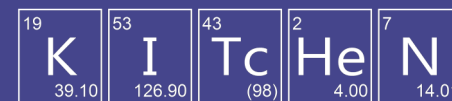
Click picture for video

What is it?

The aim of the Kitchen Chemistry Outreach Project is to communicate basic chemical principles using readily available materials and easily obtainable equipment. These principles are demonstrated in a lively and entertaining manner to audiences large and small, young and old. A key part of the project in South Africa is to equip educators with the resources to use and adapt the material. To this end we run workshops, and have produced a resource booklet, which has been endorsed by the Department of Education and translated into both Afrikaans and isiXhosa.



Click picture to link to interactive map



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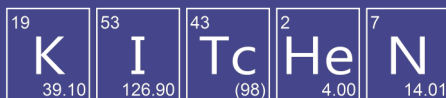
What do participants think?

In 2013 Dr Ashworth was awarded a sabbatical from the University of East Anglia and spent three months touring South Africa with the Kitchen Chemistry Outreach Project. 100% of the educators surveyed during the tour agreed that the presentations were high quality. There was also the opportunity to canvass a focus group of learners immediately before and after each science show. The attitudes that changed most strongly were that "chemistry is a complicated and difficult subject" (16% more disagreed), "chemistry has more to do with formulas and chemicals than understanding the world around us" (18% more disagreed), and "chemistry is all around us and I can do chemistry anywhere with everyday things" (17% more agreed), "chemistry is an easy subject" (16% more agreed).

Educators' resources

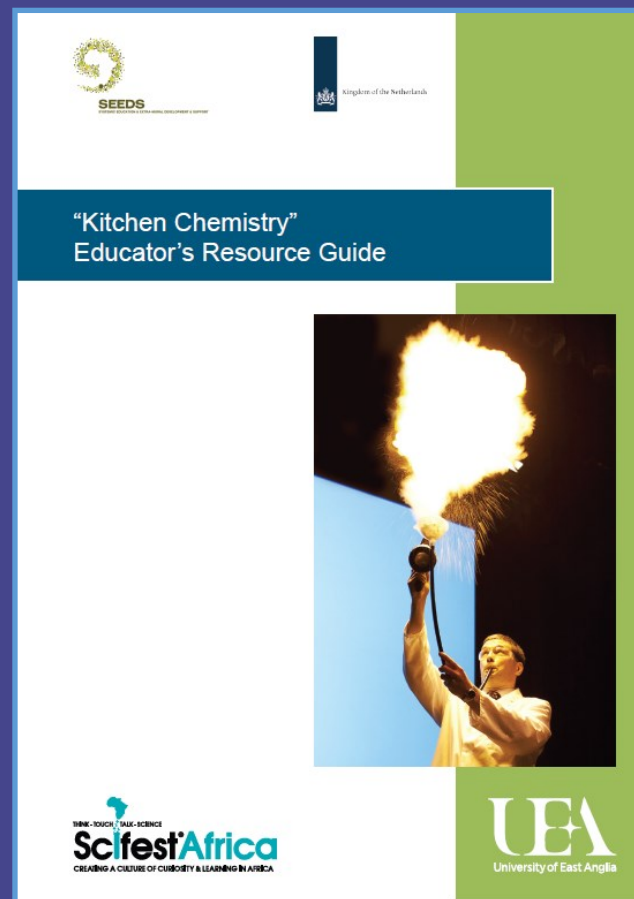
In addition to the basic costs of the project estimated in Table 1 we would aim to print more teachers' resource books. This would involve a one-off production cost.

A new set of resources to go with the new show and workshop "Kitchen Chemistry: Seconds" will be developed if funds allow. We would also like to raise funds to have this translated into Afrikaans and isiXhosa, as the original resource guide was (courtesy of the Royal Society of Chemistry). This is the only non-textbook educator resource that has been endorsed by the Department of Education.



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How much does it cost?

The main costs of the project are travel and accommodation for the presenter. Props and equipment are stored in Grahamstown so there may be additional costs of shipping to the outreach location.

	GBP	ZAR
International travel & accommodation	£1000	20000
Internal flights	£500	10000
Vehicle hire (based on a large car to accommodate equipment)	£600	12000
Accommodation based on ZAR 800 per night for 12 nights	£480	9600
S & T (lunch ZAR 80 supper ZAR 140 13 days)	£143	2860
Evaluation (materials and manpower)	£500	10000
Consumables for shows and workshops (based on 20 events)	£200	4000
10% Scifest Africa implementation fee	£342	6846
Total (based on exchange rate of 1 GBP = 20 ZAR)	£3765	75306

Table 1: Budget estimate for one two-week Kitchen Chemistry Tour