

# Exploring the fundamental ideas at work in the natural world.

## Projective Geometry Seminar at The Field Centre , Nailsworth.

Monday, 16th – Wednesday, 18th February 2015.

There are 2 opposite but complementary ways to make greater sense of what the world presents to us, both ways can engender wonder, respect and even reverence. Either we start with the phenomena, the sense perceptions (as Goethe did) and see if the ideas working in them can reveal themselves to us, or we explore the world of ideas and relate this to our perceiving. The latter is the approach we will take in this seminar. It should however be accessible to those without a lot of prior understanding or experience.

There will also be some warm up geometry sessions before the main seminar for anyone wanting to prepare themselves.

The event will include presentations from Oliver Conradt leader of the Astronomical and Mathematical Section at the Goetheanum, Nick Thomas and other eminent geometricians from Scotland, Berlin and Devon. We will engage with geometry practice suitable for all abilities as well as Eurythmy sessions to assist in the thinking processes.



Including a  
presentation on

### **Comets**

This will be a public talk by  
**Oliver Conradt,**

**Cost** £125 including lunches, suppers, teas and coffees

### **Further information and Bookings**

Simon Charter, The Old Mill House, Hampton Lane, Chalford, GL6  
8NX

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## **PROGRAMME**

### ***Monday 16th***

9.00-12.30 Optional drawing exercises –Graham Calderwood and Gordon Woolard

#### **14-00 Welcome and introductions**

14-15 Eurythmy

14-35— George Adams thoughts on the Hidden Forces in Mechanics- Gordon Woolard

16-00 –break

16.20- Introduction to Line Geometry -Nick Thomas.

17-20 - discussion

18-00 - supper

19-30 - Comets - Oliver Conradt

### ***Tuesday***

9-00--Eurythmy .

9.20-- geometry practice- Graphical statics and Bow's Notation- Gordon Woolard

10-30-- break

11-00- Pentagrams, Pentagons and the Rosaceae -Richard Nott.

12-30 - lunch

14-00 - Story , Carrie Keys

14.30 - Pat Toms

15-30- break

16-00 - Intro to projective Algebra, – Oliver Conradt

17-30 - discussion

18-00 - supper

19-30-- Chaos and Projective Geometry, - Nick Thomas.

### ***Wednesday*** 9-00- Eurythmy

9.20 -- Duality in non-polyhedral solids- Eva Wohlleben

10-45-- break

11-00- The Polarity between the Sciences of Botany and Mechanics,- Gordon Woolard

12-45 lunch

14.15 - Overview of the relation of Projective geometry to Physics and the various branches of Natural Science.- Oliver Conradt.

15-45 break

16-15- 17-00 Plenum discussion.