

# AMGEN INITIATIVE KICK-OFF MEETING

**The French National Museum of  
Natural History project for 2013**

## Thierry Magniez

The educational correspondent of the scientific expeditions  
Science teacher, wildlife photographer, explorer

### Papua new guinea expedition

( teaching aids : photographs, interviews, write report, video...)

### Link

scientists / teachers volunteered follow the expedition with their class

### About this AMGEN science teacher training project :

design and animate, the educational training program based on the expeditions  
(face to face sessions, DLA and teachers community).

## Face to face training courses

5 sessions of 1 or 2 days

### **Based on the scientific expedition :**

Several expedition of the our planet reviewed program

Adventurous, concrete aspects to attract the attention of school students

To show the reality of the scientific world

### **the investigation science teaching**

Use the scientific investigation approach of the expedition to start scientific investigation approach in the class during teaching with students

### **5 independent face to face sessions :**

Each face to face session is independent of each other

### **At the end of evry session, presentation of the community teacher tool:**

to grow and better known the community of teacher  
the website (<http://www.scienceteachertraining.com/>)

## Methodology using the teaching aids designed for the Papua New Guinea expedition

one day: February 6, 2013

For 30 secondary school teachers

### Presentation of teaching aids kit :

Forum, blog, photographs, video, interviews, reports... about expedition

### Build a scientific investigation approach :

Trainees design a scientific investigation approach for an activity in class

### Presentation of the community teacher tool:

to grow and better known the community of teacher  
the website (<http://www.scienceteachertraining.com/>)

## Observing, studying and dreaming the world: how to approach a scientific expedition through images

2 days: April 24 and 25, 2013  
For 30 secondary school teachers

### Image and the scientific investigation approach in a expedition:

The importance of image in the world of science is increasing

Wok doc, communication tools

### Technical part :

Professeurs show how do and use images ( microscope, scanner)

About the PNG expedition

The artistic lecture

### Hands-on experimental learning :

Scientific illustrator in the herbarium

Training about the role of image in the scientific investigation in class

## Work and follow-up work on samples gathered during an expedition

One day / may be: April 10, 2013  
For 30 secondary school teachers

### Work and scientific data bank in a expedition :

Good support to build a scientific investigation way in class  
Understand

### Visit of the national Herbarium :

Show historical collection in herbarium

### molecular sampling :

DNA sampling, barcoding, DNA data bank...  
GPS location

## Setting up an investigation science education approach relying on an expedition about marine biodiversity

2 days October - November, 2013  
For 30 secondary school teachers

### The different scale investigation in science :

Visit of lab

### Lectures :

Philippe bouchet about scientific investigation in a expedition  
Nicolas Puillandre about scientific investigation in a lab

### Group Work:

Build different investigation lesson for the class / alga herbarium

## Setting up an inquiry-based science education approach relying on an expedition about land biodiversity

2 days October - November, 2013  
For 30 secondary school teachers

### The different scale investigation in science :

Visit of lab

### Lectures :

Olivier Pascal about scientific investigation in a expedition

Frederique legendre about scientific investigation in a lab

### Group Work:

Build different investigation lesson for the class / herbarium, insect, amphibian and reptilian collection



## Teachers' Community

### 80 have been engaged in the first DLA :

The five 2013 training face to face sessions will be designed to welcome 130 teachers

During each session a large amount of time will be devoted to introducing and underlining the importance of this teachers' community. At the same time the use of the communication tool will be explained so that the trainees can get to know how to use it.

### At the end of evry session, presentation of the community teacher tool:

to grow and better known the community of teacher  
the website (<http://www.scienceteachertraining.com/>)

### Put important doc on the forum or the library of the community after training session

## Distance Learning Activities

in June 2013 at the end of the PNG expedition .

The DLA will deal with the following:

- A reminder of the purpose of the expedition and a presentation of the first scientific results
- Best-off of the 2013 face to face training sessions (lectures)
- Presentation of the laureates of the educational contest based on the 2012-2013 expedition
- Presentation of the best teaching material based on the expedition created by the classes
- Educational data bank based on the expedition to be used by secondary school teachers

For this DLA, we can use different tool like video-lectures, publications, forum, and data educative bank.