

Partners

You have to determine the scientific direction of your activation in future.

This direction has to be at the world scientific interest and for Moldova interest.

What are the weaknesses of your working team?

What scientific teams in Europe are successful in this field - data from the Internet?

Formulate common points of collaboration that would form a more competitive consortium.

Electro-photo-catalytic solar cells

In our country this direction is not common for chemists.

That's why I analyzed the literature on this topic and I get interested in the work results of laboratory of molecular photonic from Newcastle University

Andrew C. Benniston 12th July 2007

Physical Chemistry Chemical Physics

Porphyrin linked poly(pyridyl)-based conjugates as artificial photosynthetic reaction centre models

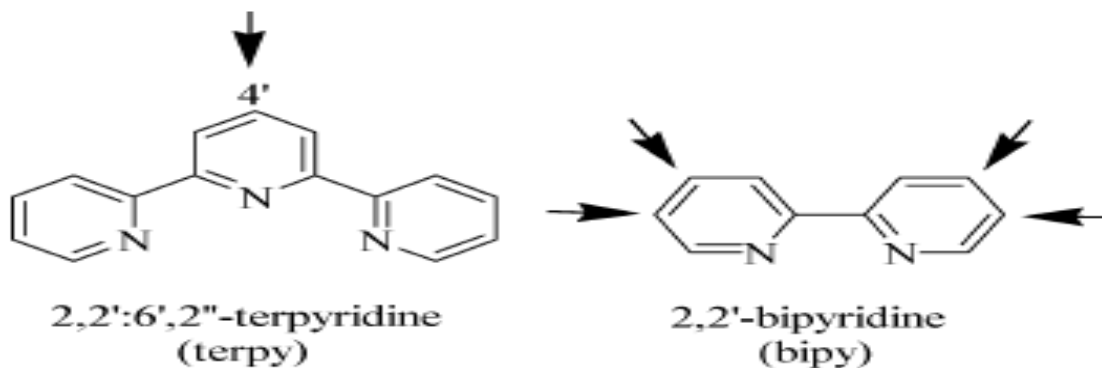


Fig. 1 Poly(pyridyl) ligands used to construct porphyrin-based molecular assemblies. Arrows show the most commonly used sites for attachment of photoactive units.

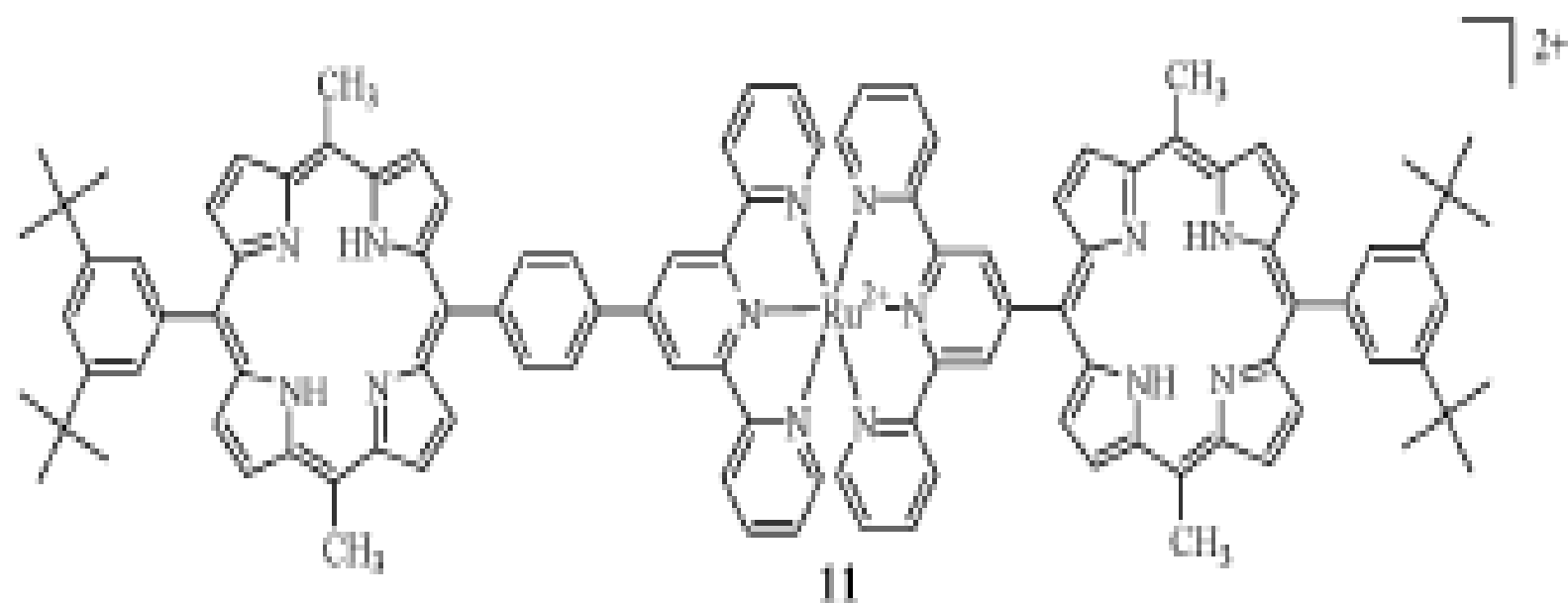
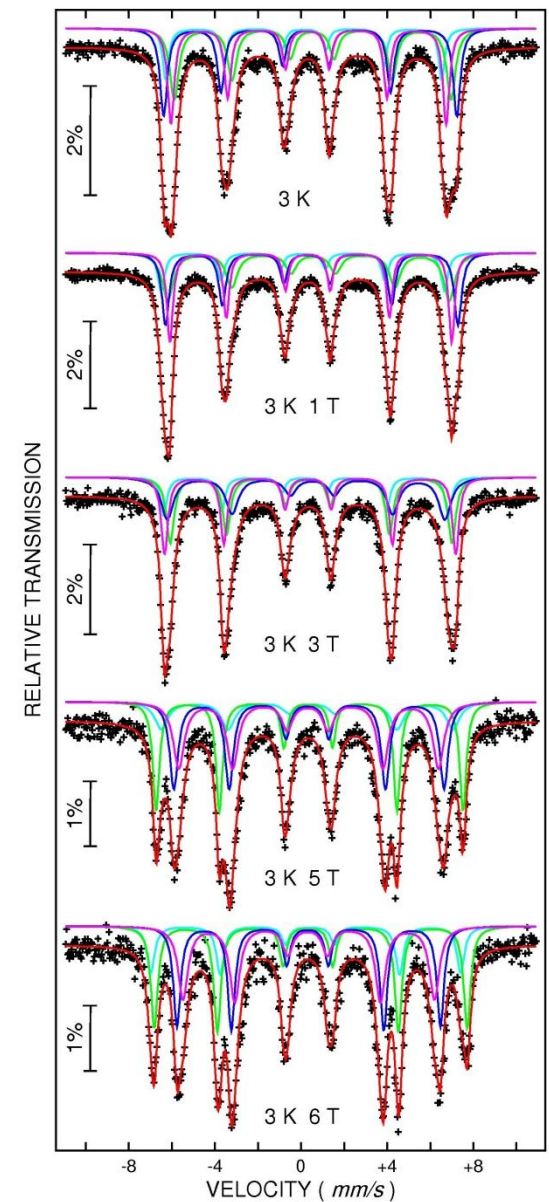
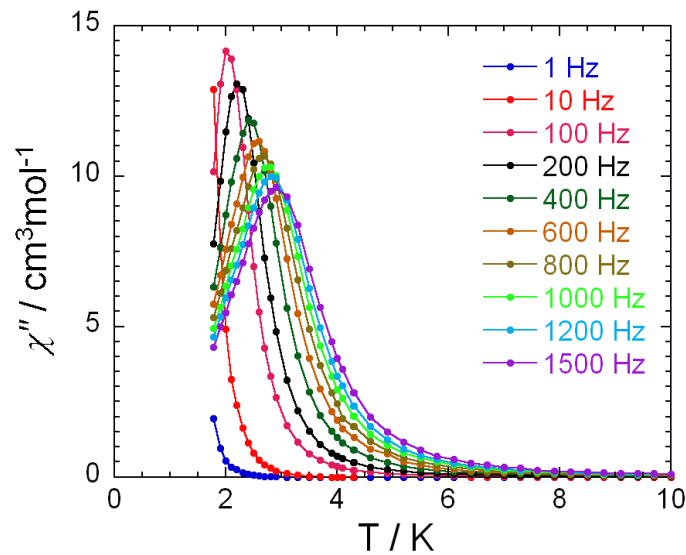
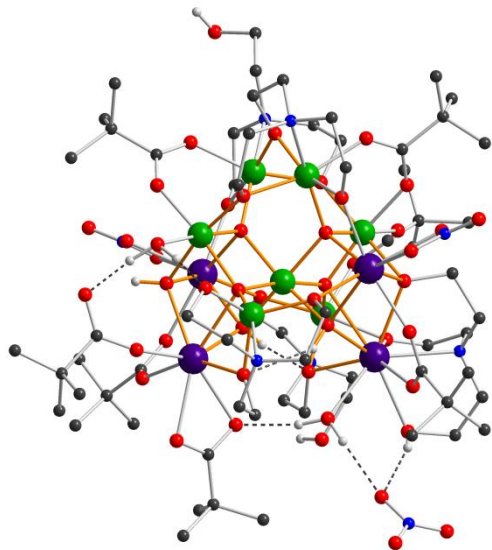
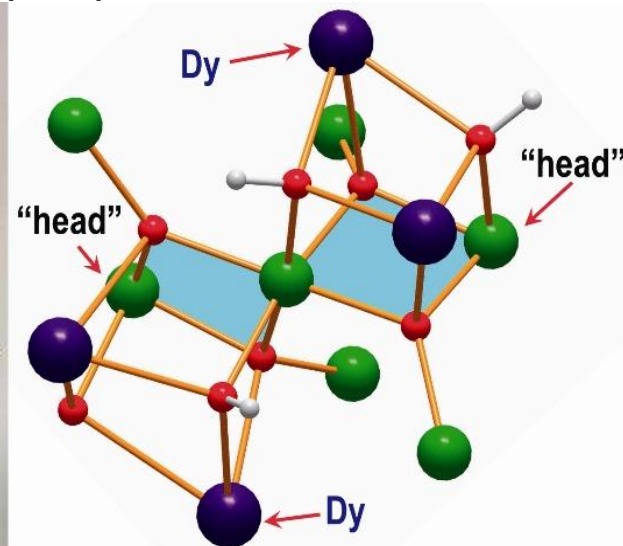
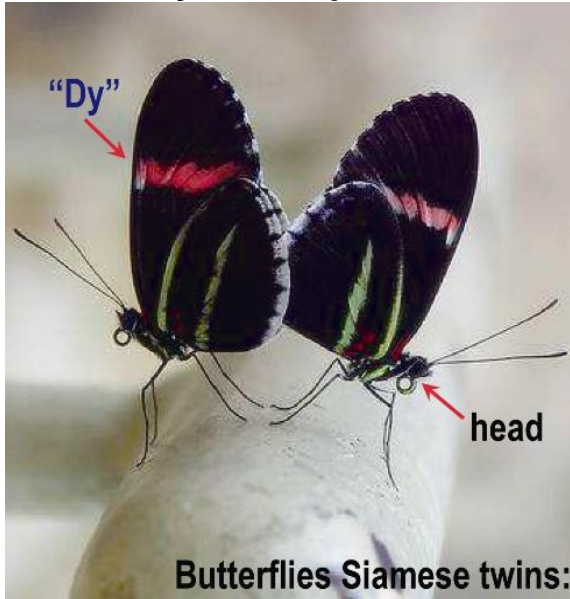


Fig. 6 Molecular triads containing a metal bis(terpy) central core.



How to find the partners?

Necessity to have a good specialists in organic chemistry synthesis

Presentations at the International Conferences on this topic

Mangalagiu's team from Iasi University was one of the possibilities. His topic at our Conference convinced me that his participation in the consortium will be a good solution.



What funds are available for the planned research?

PEOPLE

MARIE CURIE ACTIONS

International Research Staff Exchange Scheme

Num: FP7-PEOPLE-2009-IRSES

I decided to address

to Professor Andrew Benniston

and

Professor Ionel Mangalagiu

with the proposal of creating the consortium on using the Solar energy in water photolysis.

The main idea was to join the abilities and knowledge of three different departments with the aim to succeed in creating new workable catalysts.

How partners appreciate the proposal?

Nowadays each researcher is appreciated by the scientific results and experience.

Skill of group's member, in special of its leader.

The base of our successful partnership was the experience in a certain area of each group.

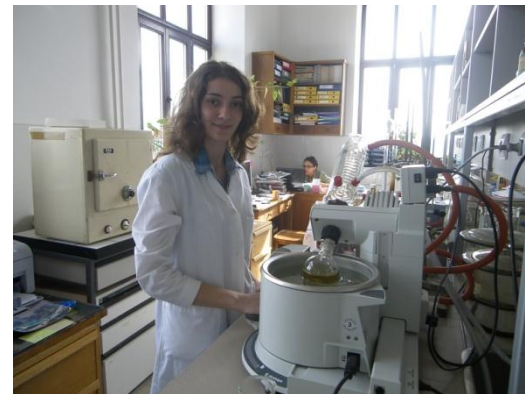
This way we just used our knowledge to set up a good version of project.



Dr. Sergiu Șova



**Academician
Constantin Tuntă**

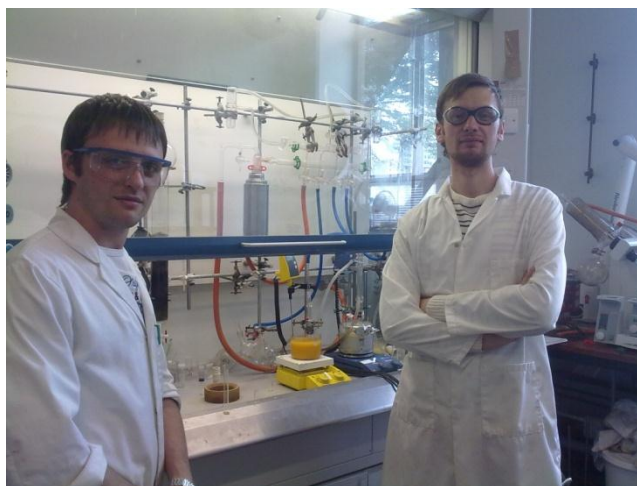


**Doctorand
Irina Vodă**

ECHIPA PROIECTULUI FP7 din MOLDOVA, CHIȘINĂU



**Masterand
Olesea Cuzan**



**Doctoranzii
Ion Marin și Dumitru Sîrbu**



Dr. Silvia Melnic

Grant Agreement

Project number

246902

Project title

PCAP—Photocatalytic Cluster Complexes for Artificial Photosynthesis
Applications

Call (part) identifier

FP7-PEOPLE-2009-IRSES

Funding scheme

Marie Curie Actions—International Research Staff Exchange Scheme
(IRSES)

A Partnership and Consortium Agreement ('Agreement') is hereby concluded between:

University of Newcastle upon Tyne (UNEW), established in Newcastle, UK (the Co-ordinator), and

AII Cuza University (UAIC), established in Iasi, Romania

Also known as the 'Beneficiaries'

and

Academy of Sciences (ASM) , established in Chisinau, Moldova

(collectively "the Parties") represented by their authorized representatives as stated in the Grant Agreement.

For the purpose of this Agreement, União Academy of Sciences (ASM), established in Moldova shall also be referred to as "Third Country".

Objectives

- **design and synthesis of new ligands for artificial photosynthesis;**
- **elaboration of new environmentally friendly methods of work, using microwave and ultrasounds technology;**
- **increasing the skills and abilities in research and management of staff researchers, young Ph-D and master students involved in the project;**
- **knowledge transfer and development of a strong partnership between the three partners;**
- **increasing the visibility of the partners in the scientific community**

Duration of the project and its realization

Duration 36 months

Budget

For UK – 37,8 thousands Euro

Romania – 23,4 thousands Euro

Moldova – 120,6 thousands Euro

TOTAL 181,8 thousands Euro

Visits of members of Moldova group

to Romania - 24 months

to UK – 43 months

Visits of members of UK group

to Moldova – 21 months

Visits of members of Romania group

to Moldova - 13 months

Total

101 months

Realization

Workshop 1: month 1, in Moldova

Workshop 2: month 13, in U.K.

Workshop 3: month 25, in Romania

Objectives

I. Seminars of AIC to ASM:

- knowledge transfer concerning ligands, MW and US, eco-friendly reactions;
 - increasing the skills and abilities of staff researchers, young Ph-D and master students involved in the project;
- stronger relationship between AIC and ASM teams

II. Seminars of ASM to AIC

- knowledge transfer concerning synthesis, physical method investigations and electronic structure of iron carboxylate clusters and terpenoids;
- increasing the skills and abilities of staff researchers, young Ph-D and master students involved in the project;

Project Workshop

Call identifier – FP7-PEOPLE-2009-IRSES

Project number – 246902

Project title – PCAP—Photocatalytic Cluster Complexes for Artificial Photosynthesis Applications

Funding scheme – Marie Curie Actions—International Research Staff Exchange Scheme (IRSES)

17 – 19 November 2010,

Chisinau, Moldova

Workshop

Time	Activity	Responsible
<i>Tuesday, November 16, 2010</i>		
Team arrival and accommodation.		
<i>Wednesday, November 17, 2010</i>		
9:00 – 9:30	Registration of participants.	IC of ASM team
9:30 – 10:30	Welcome speech.	Duca Gh., Lupascu T., Turta C.
10:30 – 11:00	Opening remarks and introductions. Mapping out the project – aims and goals.	Benniston A.
11:00 – 11:30	Coffee break	
11:30 – 11:50	U.K. team presentation.	Benniston A.
11:50 – 12:10	RO team presentation.	Mangalagiu I.
12:10 – 12:30	MD team presentation.	Turta C.
12:30 – 13:00	Interchange of views.	All members
13:00 – 14:30	Launch	
14:30 – 17:00	IC laboratories presentation.	Turta C.
<i>Thursday, November 18, 2010</i>		

Thank you for your attention!