



National Work Plan for Poland

Time schedule of		WP/ Relevant project deliverable	Outcome	Procedure	To Do's (who, what, when)	Responsible contact person
final outcome according to EU workplan	Concrete date as agreed by national partner					
April 2008 (PM 3)	June 2008 (PM 5)	WP1/ D 1.5	National work plan and schedules has been discussed within the Torun Group	information on the Project content, short report from the Kick-off Meeting, correspondence with co-ordinator, familiarisation with the national work plan template	<ul style="list-style-type: none"> done 	Jozefina Turlo, Grzegorz Karwasz
June 2008 (PM 5)	June 2008 (PM 5)	WP2/D 2.3	Questionnaire on HPS elements in science teaching	designing the Questionnaire containing 18 tasks for science teachers	<ul style="list-style-type: none"> done 	Jozefina Turlo, Andrzej Karbowski
July – August 2008 (PM 6,7)	July – August 2008 (PM 6,7)	WP2/D 2.3	Questionnaire on HPS elements in science teaching	analysis of the Questionnaire results and preparation of ppt presentation	<ul style="list-style-type: none"> done 	Jozefina Turlo, Krzysztof Sluzewski
July 2008 (PM 6)	September 2008 (PM 8)	WP2/ D 2.1	minutes of the national meeting	the national meeting has taken place in Torun after teacher vacations on 12 th of September 2008.	<ul style="list-style-type: none"> done 	Jozefina Turlo
July 2008 (PM 6)	August 2008 to September (PM 7,PM8)	WP2/ D 2.3	collecting and arranging the existing teaching material, preparing it for translation, exchange and presentation	first list of teaching materials was identified by the Torun Partner Group members and by the Questionnaire answers of science teachers. Some were described.	<ul style="list-style-type: none"> the list was discussed with teachers collaborating with us within Polish Association of Science Teachers 	Jozefina Turlo
July 2008 (PM 6)	September 2008 (PM 8)	WP2	set-up of thematic working groups which meet and collaborate regularly during the	four working groups were established: 1. elaboration of materials and	<ul style="list-style-type: none"> the members of these groups are supposed to meet regularly, 	Jozefina Turlo Grzegorz Karwasz Andrzej Bielski

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			project, build up cooperation of science teachers, science education researchers and science museums	<p>methodology of HIPST in secondary schools</p> <ol style="list-style-type: none"> 2. elaboration of teachers education and training programme with the HIPST elements 3. elaboration of materials and practical realisation of exhibitions at museums 4. preparation of new replicas 	<ul style="list-style-type: none"> • the supervisors of the particular groups were selected, • we were advised by Professor Riess and we decided to concentrate on examples from optics: selecting Witelo, Copernicus Newton and Goethe experiments as well as historical spectacles. 	<i>Andrzej Karbowski</i>
April 2008 (PM 3)	September 2008 (PM 8)	WP1/ D 1.5	national work plan and schedules has been adjusted to the actual conditions (new Ministry of National Education regulations, standards, curricula, etc)	after presentation of the results of the Questionnaire on HPS in Polish science teaching, national work plan and schedules has been discussed with the science teachers and experts	<ul style="list-style-type: none"> • done 	<i>Jozefina Turlo, Grzegorz Karwasz teacher representatives</i>
August 2008 (PM 8)	August - September 2008 (PM 7,8)	WP6/ D 6.2	<i>complete list of teaching materials from optics and coordinating with national conditions</i>	<i>the interactive exhibition on "FIAT LUX – from Witelo to optical tomography" was exposed until 15th September at the Regional Museum in Torun</i>	<ul style="list-style-type: none"> • <i>exhibition contained among others the replicas of historical experiments as Witelo devices, Goethe prism, many kinds of historical spectacles, Copernicus instruments, set of historical telescopes</i> 	<i>Grzegorz Karwasz Krzysztof Sluzewski Andrzej Karbowski Jozefina Turlo</i>
September 2008 (PM 8)	September-December 2008 (PM 8-PM 11)	WP6	<i>complete the knowledge on teaching materials from optics and coordinating with national conditions</i>	<i>the Regional Seminar for science teachers on HIPST was established and the related materials were placed at www</i>	<ul style="list-style-type: none"> • 4 lectures on 12th September, • 1 lecture on 7th December, • 1 lecture on 4th February 	<i>Józefina Turlo Grzegorz Karwasz</i>
December 2008 (PM 11)	December 2008 (PM 11)	WP3/ D 3.2	<i>development and preparation for the Wikipedia</i>	<i>preparing the materials and establishing the Polish web page on HIPST project</i>	<ul style="list-style-type: none"> • http://hipst.fizyka.umk.pl 	<i>Jozefina Turlo Krzysztof Sluzewski</i>
January 2009	January to February	WP7	early translation into English of a selection of case studies about a	the selection will be coordinated among all partners on an international level by the HIPST	<ul style="list-style-type: none"> • taking a part in the discussion and delivering 	<i>Jozefina Turlo</i>

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(PM 12)	2009 (PM 12)		common topic (e.g. electrostatics)	consortium	necessary data	
January 2009 (PM 12)	February 2009 (PM 13)	WP4/ D 4.3	a format for the presentation and exchange of teaching material is chosen.	the process has to be coordinated among all partners on an international level supervised by the leader of WP4	<ul style="list-style-type: none"> taking a part in the discussion and decision process 	<i>Jozefina Turlo</i>
February 2009 (PM 13)	February 2009 (PM 13)	WP5	Mid-term conference	participation in the programme of Mid-term conference in Budapest	<ul style="list-style-type: none"> taking an active part in the Mid-term conference 	<i>Jozefina Turlo</i> <i>Grzegorz Karwasz</i>
March –May 2009 (PM 14)	March-May 2009	WP7	teacher training course and evaluation according to a common format	the programme of course will be designed, executed and evaluated. It will be dedicated to the group of physics teachers collaborating within the network	<ul style="list-style-type: none"> proposal of the HPS course programme, adjusted to the Polish core subject curricula presentation of the new replicas of Copernicus and Newton experiments 	<i>Józefina Turlo</i> <i>Grzegorz Karwasz</i> <i>Katarzyna Przegietka</i> <i>Andrzej Karbowski</i> <i>Krzysztof Sluzewski</i>
May 2009 (PM 16)	March-May 2009 (PM 14-16)	WP4/ D 4.4	complete package of teaching material in English provided in a unified form by the national groups and distributed to all participants and their partners at schools and in museums	as a conclusion of WP4 “Development and refinement of teaching material for schools and museums” selected materials will be translated into English using the common format	<ul style="list-style-type: none"> the final package of selected materials is translated into English using the subcontracting process 	<i>Jozefina Turlo</i> <i>Katarzyna Przegietka</i>
till July 2009 (up to PM 18)	April to July 2009 (PM 15-18)	WP7	collection and interpretation of the feedbacks from teachers	elaboration of the adapted criteria proposed by WP7 leader to the national conditions	<ul style="list-style-type: none"> tools for evaluation of the course effects adapted to the national needs 	<i>Jozefina Turlo</i> <i>Katarzyna Przegietka</i>
March to July 2009 (PM 14-18)	March to April 2009 (PM 14, 15)	WP6	second national meeting	the schedule of the meeting will be elaborated, the meeting organised, where the discussion on assessment of case studies and adaptation of partner materials will take place	<ul style="list-style-type: none"> invitation to the meeting with the schedule (at the web page) including information on HIPST partners results, case studies and discussion Proposition of professor Riess invitation 	<i>Jozefina Turlo</i> <i>Katarzyna Przegietka</i> <i>Andrzej Karbowski</i> <i>Krzysztof Sluzewski</i> <i>Dawid Basak</i>
July 2009	March to July	WP6/	the minutes of the	minutes from the national meeting	<ul style="list-style-type: none"> minutes from the meetings 	<i>Jozefina Turlo</i>

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(PM 18)	2009 (PM 14-18)	D 6.1	national meetings are elaborated	will be written and collected, what will constitute the documentation		<i>Andrzej Karbowski</i>
July 2009 (PM 18)	March to July 2009 (PM 14-18)	WP6/ D 6.2	adaption of material to national conditions	the selected materials in English elaborated by partners will be adapted to the actual requirements (new Ministry of National Education regulations, and core curricula, etc)	<ul style="list-style-type: none"> adapted teaching materials translated into Polish available at the Polish web page 	<i>Jozefina Turlo Grzegorz Karwasz Andrzej Bielski Jacek Rybicki Magdalena Czerwinska</i>
October 2009 (PM 21)	May to October 2009 (PM 16-21)	WP9	third international conference	active participation in the third international conference	<ul style="list-style-type: none"> results of work presented by the Polish participants of the conference (including school teachers) 	<i>Jozefina Turlo Grzegorz Karwasz active teacher representatives</i>
July to November 2009 (PM 18-22)	November 2009 (PM 22,23)	WP7/ D 7.1	third national meeting	the results of HIPST project will be analysed and the possibility of their dissemination discussed. Furthermore, future alike activities will be proposed	<ul style="list-style-type: none"> invitation to the third national meeting (at web page) organisation of the meeting 	<i>Jozefina Turlo Andrzej Karbowski Krzysztof Sluzewski Dawid Basak</i>
November 2009 (PM22)	October to December 2009 (PM 21-23)	WP3/ D 3.2	development and preparation of content for the Wikipedia	selected materials will be prepared for Polish web page and for Wikipedia	<ul style="list-style-type: none"> selection of materials, preparation for Polish www, preparation for Wikipedia 	<i>Jozefina Turlo Krzysztof Sluzewski Andrzej Karbowski</i>
December 2009 (PM 23)	December 2009 (PM 23)	WP7/ D 7.1	minutes of the third national meetings are elaborated	documentation of processes and central results of third national meeting	<ul style="list-style-type: none"> minutes from the meeting 	<i>Jozefina Turlo Andrzej Karbowski</i>
December 2009 (PM 23)	December 2009, January 2010 (PM 23, 24)	WP8	publication on national level (e.g. journals for teachers)	the most relevant results of the project will be published in Polish	<ul style="list-style-type: none"> publications of the most important HIPST results 	<i>Jozefina Turlo Grzegorz Karwasz Andrzej Karbowski Krzysztof Sluzewski</i>
December 2009 (PM 23)	December 2009 (PM 23)	WP7/ D 7.2	evaluation	contribution to the evaluation of the project results according to the indications given by WP7 leader adapted to the local conditions	<ul style="list-style-type: none"> contribution to the evaluation work lead by WP7 	<i>Jozefina Turlo</i>