UNESCO REGIONAL WORKSHOP ON THEMATIC ISSUES FOR ESD

June 2009

Presented by: Professor Elwyn Thomas
Institute of Education
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ESD RESEARCH

SESSION A
BRIEF REVIEW OF RESEARCH MODELS

SESSION B
ANALYSIS OF SELECTED ESD RESEARCH STUDIES AND PROJECTS

SESSION C
TASK: PLANNING A SMALL SCALE ESD RESEARCH
SESSION A

BRIEF REVIEW OF RESEARCH MODELS USED IN EDUCATION AND OTHER SOCIAL SCIENCES.
<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
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<tbody>
<tr>
<td>Survey</td>
<td>Quantitative</td>
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<tr>
<td>Experimental</td>
<td>Quantitative</td>
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<tr>
<td>Testing/Assessment/</td>
<td>Mix</td>
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<tr>
<td>+ Evaluation Techniques</td>
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<tr>
<td>Ethnographical Action Research</td>
<td>Qualitative</td>
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<tr>
<td>Case Study</td>
<td>Qualitative</td>
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SESSION A
NEWER MODELS

SYSTEMS THINKING + INFORMATION SHARING.

INTER AND TRANSDISCIPLINARY APPROACHES.

COOPERATIVE ENQUIRY.

PARTICIPATORY INQUIRY + PRACTICE (ACTION RESEARCH ADJUNCT).

INTEGRATION OF RESEARCH MODELS AND METHODOLOGIES.

ENGAGED RESEARCH
SESSION B

ANALYSIS OF SELECTED ESD RESEARCH STUDIES AND PROJECTS.
SESSION B

CASE 1
CONNECTING RESEARCH AND PRACTICE: EDUCATION FOR SUSTAINABLE DEVELOPMENT.

CASE 2
EDUCATION FOR SUSTAINABLE DEVELOPMENT: AN EMPIRICAL STUDY OF THE TENSIONS AND CHALLENGES FACED BY GEOGRAPHY STUDENT TEACHERS.

CASE 3
ESD AND INFORMATION SYSTEMS.

CASE 4
SUSTAINABLE DEVELOPMENT IN ACTION: A CURRICULUM PLANNING GUIDE FOR SCHOOLS.

CASE 5
PLANNING A SUSTAINABLE SCHOOL: DRIVING SCHOOL IMPROVEMENT THROUGH SUSTAINABLE DEVELOPMENT.
SESSION B

CASE 1

CONNECTING RESEARCH AND PRACTICE: EDUCATION FOR SUSTAINABLE DEVELOPMENT

SELECTION OF THREE CASE STUDIES THE PROJECT

CASE STUDY 1

USING RESEARCH TO RAISE QUESTIONS ABOUT ONE’S OWN ESD TEACHING PRACTICE.
SESSION B

CASE STUDY 2
USING RESEARCH TO INVESTIGATE YEAR 9 STUDENT’S UNDERSTANDING OF ENVIRONMENTAL ISSUES.

CASE STUDY 3
USING RESEARCH TO INVESTIGATE THE FACTUAL CORRECTNESS OF ESD TEACHING AT AN OUTDOOR CENTRE.

NB The numbers for the original CS are 2, 5, 6
SESSION B

FIGURE 1

THE “USER REVIEW” PROCESS

STAGE 1
SELECTION FROM ESD RESEARCH

Synthesis into

STAGE 2
REVIEW OF THE ABOVE

Used as a basis for

STAGE 3
THE RESEARCH PROJECT
SESSION B

CASE 2

EDUCATION FOR SUSTAINABLE DEVELOPMENT: AN EMPIRICAL STUDY OF THE TENSIONS AND CHALLENGES FACED BY GEOGRAPHY STUDENT TEACHERS
SESSION B

CASE 3

ESD AND INFORMATION SYSTEMS: FOUR STUDIES

1. SUSTAINABLE DEVELOPMENT LEARNING THROUGH RESEARCH AND ROLE PLAY. AUTHOR: E. BURD

2. SUSTROUP (SUSTAINABLE DEVELOPMENT STUDENT TEAM REACH OUT PROJECT). AUTHOR: L HUMPHRIES
CASE 3 (contd)

ESD AND INFORMATION SYSTEMS: FOUR STUDIES

3 CASE STUDY OF AN APPROACH TO EMBEDDING SUSTAINABLE DEVELOPMENT IN THE CURRICULUM IN THE INFORMATION AND COMPUTER SCIENCES.
AUTHOR: N GORDON

4 ESD CASE STUDY OF THE HEA ICS CENTRE: EMBEDDING SUSTAINABILITY INTO THE IS CURRICULUM.
AUTHOR: N. PLANT
SESSION B

CASE 4

SUSTAINABLE DEVELOPMENT IN ACTION: A CURRICULUM PLANNING GUIDE FOR SCHOOLS.
SESSION B

CASE 5

PLANNING A SUSTAINABLE SCHOOL: DRIVING SCHOOL IMPROVEMENT THROUGH SUSTAINABLE DEVELOPMENT.
SESSION C

TASK

DEVELOPING A SMALL SCALE ESD RESEARCH PROJECT.
SESSION C

OBJECTIVES

1. TO PLAN AND DESIGN A RESEARCH PROJECT.

2. TO IDENTIFY AN ESD PRIORITY AREA.

3. TO APPLY AND COORDINATE KNOWLEDGE, SKILLS AND ATTITUDES GAINED FROM THE PRESENT WORKSHOP.

4. TO MAKE DECISIONS ABOUT RESEARCH MODELS.

5. TO USE INTERNATIONAL RESOURCES AND IDEAS.

6. TO TRAIN RESEARCHERS

7. TO MATCH AIMS AND OBJECTIVES TO OUTCOMES.
SESSION C

TASK DETAILS

1. SELECT A PRIORITY ESD AREA STATING OBJECTIVES AND REASONS.

2. DEFINE THE SCOPE OF THE PROJECT eg school, community, location, educational, stage/levels, time scale, costs etc.

3. WHAT SPECIFIC PROBLEM/S WILL YOU BE ADDRESSING AND WHY?

4. GIVE DETAILS OF THE SAMPLE COMPOSITION, SIZE AND HOW REPRESENTATIVE IT WILL BE (IF APPLICABLE)?

5. WHAT RESEARCH MODEL/S WILL YOU BE USING AND WHY?

6. GIVE MORE DETAILS ABOUT 5 ABOVE.
SESSION C

TASK DETAILS (cont.)

7 DO YOU HAVE A RESEARCH DESIGN FOR THE PROJECT, IF SO BRIEFLY SPECIFY?

8 WHAT TYPE OF DATA WILL YOU BE COLLECTING AND HOW DO YOU INTEND TO TREAT IT?

9 HOW DO YOU INTEND TO PRESENT AND COMMUNICATE YOUR FINDINGS?

10 WHAT AND WHO ARE THE POTENTIAL TARGETS OF THE RESEARCH PROJECT?

11 TO WHAT EXTENT WOULD YOU ANTICIPATE FURTHER “FOLLOW UP” ACTIVITIES. STIPULATE THE NATURE OF THESE ACTIVITIES?
SESSION C

TASK ORGANISATION

WORKING GROUPS OF NOT MORE THAN 7 PERSONS.

EACH GROUP NEEDS TO SELECT A CHAIRPERSON AND RAPPORTEUR.

PRESENTATION FOR EACH GROUP SHOULD USE POWER POINT OR BRIEF REPORT BACK
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THANK YOU FOR YOUR TIME.

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