



THE UNIVERSITY
OF BIRMINGHAM

SCHOOL OF
BIOSCIENCES

**THE UNIVERSITY OF BIRMINGHAM
AND
THE DARWIN INITIATIVE
FOR THE SURVIVAL OF SPECIES**

*PLANT BIODIVERSITY
CONSERVATION AND SUSTAINABLE UTILISATION
TRAINING IN WEST AFRICA*

FINAL REPORT

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DARWIN INITIATIVE - FINAL REPORT

1. DETAILS OF APPLICANT

Project Title

PLANT BIODIVERSITY CONSERVATION AND SUSTAINABLE UTILISATION TRAINING IN WEST AFRICA

Contractor

School of Biosciences, The University of Birmingham.

Host country Collaborating Institutes

Year 1 INRAB, Cotonou, BP 884, Benin

Year 2 Université de Cocody, 22 BP 582 Abidjan 22, Côte d'Ivoire

Year 3 Mount Cameroon Project, Limbe Botanic Garden, PO Box 437, Limbe SWP, Cameroon

Grant Round

Six

Grant Value

, 162,858 from the Darwin Initiative

, 65,142 from the International Plant Genetic Resources Institute

Total Value - , 228,000 over three years

2. Project Expenditure

Breakdown of Expenditure

	1997	1998	1999

Variation in Expenditure

There was no variation from the original expected expenditure.

3. Project Background / Rationale

Project Rationale

The project provided training for biodiversity and plant genetic conservation workers from the various countries of West and Central Africa in Plant Biodiversity Conservation Techniques. These developing countries are rich in plant biodiversity but poor in economic resource terms. These countries show a clear demonstrable need for the skills that the Darwin Fellows acquired during the three training courses. Article 1 of the Convention on Biological Diversity (UNCED, 1992) states that:

"The objectives of this convention ... are the conservation of biological diversity, the sustainable use of its components and the fair and equitable sharing of the benefits arising out of the utilisation of genetic resources, including by appropriate access to genetic resources and by appropriate transfer of relevant technologies..."

It will prove impossible to meet this objective in West and Central Africa, at least in the short term, due partially to loss of trained biodiversity workers and the resultant lack of adequately trained personnel.

There is an urgent need to provide scientists throughout West and Central Africa with the skills required to study, conserve and utilise their native flora. This requirement is recognised in numerous formal sector reports: Darwin Initiative for the Survival of Species - DoE (1993); Biodiversity Convention, United Nations Conference on Environment and Development (1993); Final report of the Keystone International Dialogue on Plant Genetic Resources, Keystone Centre (1988); Guidelines for Country Studies on Biological Diversity, UNEP (1994); The specific biodiversity training needs of West and Central Africa were discussed and clarified in the reports of for West Africa by the ICPPGR Regional Synthesis Report (1995) and the IPGRI West African Biodiversity Training report; and from surveys in West Africa undertaken by University of Birmingham and IPGRI staff. Article 12 of the Convention on Biological Diversity (UNCED, 1992) recognises this problem and states:

"The Contracting Parties ... shall ... establish and maintain programmes for scientific and technical education and training in measures for identification, conservation and sustainable use of biological diversity and its components and provide support for such education and training for the specific needs of developing countries."

The evidence suggests there was an overwhelming need in West and Central Africa for the type of short training courses provided.

Why Birmingham?

The School of Biological Science, University of Birmingham has an established international reputation, both for providing such training in species conservation and sustainable utilisation. The School has provided Master's degree, Diploma and Certificate course training for over 1,000 students from 95 countries over the past thirty years. We currently offer four taught Masters courses: *Conservation and Utilisation of Plant Genetic Resources* (given in association with the Royal Botanic Gardens, Kew), *Applied Genetics, Plant Breeding and Crop Improvement* (given jointly with the University of Reading) and *Botanical Diversity: Classification, Conservation and Management* (given jointly with the University of Reading, the Natural History Museum, London and the Royal Botanic Gardens, Kew). The School also regularly offers Short Courses (Diploma and Certificate) *on-site* in Birmingham and over the past ten years has begun to offer *off-site* courses in Developing Countries. Recent *off-site* courses have been given in Australia, Benin, Bulgaria, Cameroon, Côte d'Ivoire, Greece, Hungary, Jordan, Kazakstan, Lesotho, Mexico, Morocco, Namibia, Palestine, Poland, Russia, South Africa, Syria, Sri Lanka, Spain, Turkey, the United States of America, Uzbekistan and Zambia. Ninety percent of our students are from Developing Countries and the courses have generated methods and materials for helping workers from these areas communicate more easily and effectively in scientific English. The School has successfully run plant conservation training course in Southern and West Africa using Darwin Initiative funding. Therefore, School of Biological Science, University of Birmingham was ideally suited to provide the training required.

Project Development

The training project arose out of a series of meeting held in West and Central Africa in the late 80's and early 90's, during which various groupings of biodiversity conservationists meet with various aid donors to discuss the conservation of native biodiversity. Time and again the need for better and more trained staff was emphasised. The commitment of the UK government to assist countries rich in biodiversity but poor in financial resources meet their obligations under the CBD through the Darwin Initiative for the Survival of Species was a golden opportunity to obtain funding for such a training initiative.

A meeting of was held in Abidjan in October 1996 specifically to discuss training issues and opportunities. Present at the meeting were representatives of the University of Birmingham, International Plant Genetic Resources Institute and national representatives of several of the countries in West and Central Africa. The product of this meeting was a report detailing:

recommendations for courses curriculum development, local facilities available, potential links to sponsors and other conservation institutions and local staff capable of assisting in the provision of the training. However, one of the strongest recommendations of the report was that the University of Birmingham, in association with IPGRI and the countries of the region, should request funding from the UK Darwin Initiative to run biodiversity conservation training courses in West and Central Africa. These courses should focus on training the trainers so that the region would be self-sufficient in staff capable of providing such training following completion of the initial Darwin Initiative funding. Following intense consultation between the University of Birmingham, IPGRI (head-quarters and the Sub-Saharan office) and the national biodiversity representative of each of countries of the region a grant application was generated, submitted and funded.

Conservation Priorities of the Host Region

Following the meeting in Abidjan in October 1996 between representatives of the University of Birmingham, International Plant Genetic Resources Institute and national biodiversity conservation representatives of several of the countries in West and Central Africa, a plant biodiversity conservation training programme, specifically tailored to meet the biodiversity training needs of the region was formulated. Therefore a request for funding was submitted to the UK Darwin Initiative to meet these training needs.

Helping the Region Meet Its Obligations Under the CBD

As stated above, in the section discussing the rationale for the entire project, the West and Central African countries are rich in biodiversity but poor in resources. With the recent upheavals in the region, it is very short of trained personnel with the appropriate skills and experience needed for them to order, collect, conserve and utilise their native botanical diversity. It will be very difficult for the countries of the region to meet their obligations under the CBD not only because of a lack of financial resources but also because of the lack appropriately trained personnel need to undertake the skilled actions necessary to conserve and utilise their native botanical diversity. Specifically, the funding from the Darwin Initiative was used to train 92 managers, researchers and technicians from countries in West and Central Africa in plant conservation and sustainable utilisation. By partially funding these training courses the UK Government acted as a catalyst in ensuring that the biodiversity of their countries will be more effectively conserved and utilised in the future for the benefit of all in the region.

Who Were the End Users?

With a training project it is difficult point explicitly at >end users=. At a superficial level they were the 100 managers, researchers and technicians from West and Central Africa who received the training, but at a deeper level it will be all the people of the countries from the region who will benefit directly and indirectly from a more effectively conserved and utilised biodiversity.

A prime objective of the three courses given in West and Central Africa was to train the local trainers and provide them with teaching material, so that the region could become self-sufficient in staff capable of providing such training and have appropriate teaching aids following completion of the Darwin Initiative courses.

4. Project Objectives

Original Objective

The objective of the three Plant Biodiversity Conservation Certificate training courses will be to provide trainees from the countries of West Africa with the practical and theoretical skills they require both to conserve and sustainably utilise their native botanical diversity. Specifically trainees will attend courses in: (a) *Conservation and Utilisation of botanical diversity* given in Abidjan, Cote d'Ivoire, (b) *Ex situ conservation techniques* given at the International Institute of Tropical Agriculture, Cotonou, Benin, and (c) *In situ conservation techniques* given in Limbe Botanic Garden, Cameroon.

Were These Objectives Revised?

No.

Have the Objectives Been Achieved?

Yes. In fact 100 rather than 90 managers, researchers and technicians from West and Central Africa were trained. However, we would wish that these trainees use the skills they acquired to more effectively conserve and utilise the biodiversity of the region. As the latter is a much more long term goal, it is impossible to assess if this objective has been achieved at this point.

Partial Achieved Objectives

The stated objective was fully met.

5. Project Outputs

Specified Outputs

100 trainees attended and were trained during three, three week training courses.

Have these been achieved?

Yes

Outputs not achieved

None

Additional outputs

Yes. Production of plant conservation training materials specifically designed for the region.

6. Project Operation - Training

Broad Aim

To achieve this aim, resources are requested to enable the training of 100 Darwin Fellows in three biodiversity conservation and utilisation courses taught in Benin, Cote d'Ivoire and Cameroon.

Actions

Three plant biodiversity conservation and utilisation courses were taught in West and Central Africa. The three courses were jointly administered and coordinated by School of Biological Sciences, University of Birmingham and the Sub-Saharan Office of the International Plant Genetic Resources Institute, with the collaboration from the Ministries of Agriculture, Environment and Forestry of each country in the region.

Trainee Selection

The Sub-Saharan Office of the IPGRI, on behalf of the University of Birmingham and IPGRI, wrote advertising the Darwin Initiative courses to the Ministries of Agriculture, Environment and Forestry, appropriate research institutes, universities and NGOs of each country in the region. Each was asked to nominate potential trainees. In each year there were about twice as many applicant as the thirty places provided by the Darwin Initiative funds. The criterion used to select trainees was twofold: firstly, that their training would have most impact on improving the efficiency of national and regional biodiversity conservation and utilisation, and secondly, that they are likely to pass on the skills they acquire during the course to others in their own country and throughout the region.

Course Location and Timing

The three courses were given at:

Year 1	27 th October to 14 th November 1997 INRAB, Cotonou, BP 884, Benin
Year 2	19 th October to 7 th November 1998 UFR Biosciences; Université de Cocody, 22 BP 582 Abidjan 22, Côte d'Ivoire
Year 3	25 th October to 12 th Nov 1999 Mount Cameroon Project, Limbe Botanic Garden, PO Box 437, Limbe SWP., Cameroon

Course Content

Course One:

Conservation and Utilisation of botanical diversity in Abidjan, Cote d'Ivoire (taxonomy, ecogeography, conservation strategies, characterisation and evaluation, sustainable utilisation). See Appendix 1 for the timetable

Course Two:

Ex situ conservation techniques in International Institute of Tropical Agriculture, Cotonou, Benin (formulation and application of *ex situ* conservation strategies, including seed collecting, field gene banks, botanic garden and *in vitro* conservation). See Appendix 2 for the timetable.

Course Three:

In situ conservation techniques in Limbe, Cameroon (formulation and application of *in situ* conservation strategies, including genetic reserve and on-farm conservation). taxonomy, survey techniques, reserve management and monitoring and on farm conservation were covered. As well as an introduction to conservation ethics, politics and policy. See Appendix 3 for the timetable.

Participant Lists

For full participant lists see Appendices 4, 5 and 6 for courses one, two and three respectively.

Course Accreditation

All Darwin Fellows who attended the three courses received a Certificate of Attendance from the University of Birmingham.

Project Beneficiaries

Recent conventions and reports have outlined the critical requirement for trained biodiversity workers in West and Central Africa (see section 3 above). The training courses resulted in regional biodiversity workers having more detailed and appropriate skills and experience necessary for them to order, collect, catalogue, conserve and utilise their national and regional botanical diversity. They will also be able to transfer the skills they have acquired to other biodiversity conservation and utilisation workers in the region. Thus the trainees will be better able to assist their countries and the regional as a whole meet the challenges and obligations set by the Convention on Biological Diversity

7. Project Impact

It is very difficult to quantify the precise impact of the Darwin Initiative project and the training course provided. Specifically, the funding from the Darwin Initiative was used to train 100 managers, researchers and technicians from West and Central Africa in plant conservation and sustainable utilisation. Therefore, those trained have deeper and more appropriate biodiversity conservation skills, together with greater experience, which will help them to order, collect, catalogue, conserve and utilise their national and regional botanical diversity.

One of the trainees selection criterion was that they should be likely to pass on the skills they acquire during the course to others in their home country and throughout the region, so the initial training would act as a catalyst promoting further benefits to biodiversity conservation outside of the original group of trainees. Although it is not possible to precisely quantify the impact of the three course funded through the Darwin Initiative, the fact that the courses would not have taken place without UK Government support means that the overall impact must be positive and is likely to ensure that biodiversity in West and Central Africa will be more effectively conserved and utilised in the future for the benefit of all within the region.

Details of the trainees current occupation is provided in Appendix 4 to 6. Undoubtedly all, as professional conservationists, are using the skills they acquired during the courses to promote biodiversity conservation in their native country and the region as a whole.

The project engendered excellent collaboration between the University of Birmingham, the International Plant Genetic Resources Institute and national representatives of each of the countries in West and Central Africa. In general the courses worked well without any major problems and one Darwin Fellow has now come to Birmingham for further post-doctoral training.

8. Sustainability

Host Country Resource Input

The host countries throughout region contributed time in-kind for their staff to attend the course and for certain staff to lecture on the courses.

Host Country Financial Input

This is difficult to estimate, but is thought to be approximately , 5,000 per course.

Darwin Funding As A Catalyst

The three courses would not have taken place without UK Government Darwin Initiative support, which means the funding clearly acted as a catalyst to attract additional funding. As stated above the International Plant Genetic Resources Institute supplied 35% funding for the project (,21,714per course) and the host countries provided approximately , 5,000 in-kind funding per course to cover the staff time for their staff members to attend the courses.

Non Darwin Initiative Financial Input

The input is approximately per course:

IPGRI	21,714
Host countries	<u>5,000</u>
	37,714

Total input over the three courses: , 113,142

Project Continuation

All the parties involved in the project wish it to continue in the future. To this end the University of Birmingham, the International Plant Genetic Resources Institute and national representatives of each of the countries in West and Central Africa are meeting again to discuss further collaboration and joint approaches to sponsors for further biodiversity conservation training sponsorship.

Related Project Development

The Darwin Initiative funded plant conservation training project in West and Central Africa has helped generate several related research projects, including the funding of post-doctoral biodiversity conservation research fellowship to generation of teaching materials for the region at the University of Birmingham.

9. Outcomes in the Absence of Darwin Funding

In the absence of Darwin Initiative funding *the project would not have proceeded.*

It would be wrong to state that in the absence of Darwin Initiative funding the host countries would not have been able to meet their obligations under the CBD, it could however, be stated that the availability of Darwin Initiative funding for training of host country staff will undoubtedly facilitate the host countries meet their obligations under the CBD. It is extremely unlikely that if Darwin Initiative funding had not been available any other sponsor of the training courses given would have been found and the demonstrable need for adequately trained staff met.

10. Key Points

Key Success Factors

- § Clear recognition of the training requirement
- § Good selection of training partners
- § Good collaboration with training partners
- § Clear support of national and regional formal biodiversity conservation agencies
- § Clear support of national and regional NGO biodiversity conservation agencies
- § Efficient selection of trainees
- § Detailed planning of course content
- § Effective, interesting teaching
- § Good follow-up after course completion

Main Problem Encountered

None identified

Key Lessons

- § Ensure that the conservation training objective are clearly defined by the host countries, so that the training provided meets the local conservation training needs
- § Ensure Darwin Fellows selected are those most in need of the training provided
- § Ensure that the criteria recognise as the key success factors are firmly adhered to throughout project planning, implementation and follow-up

Need for Darwin Initiative Review

There are no specific lessons we would like to draw to the attention of the DETR at this stage other than it obviously pays to plan courses thoroughly in advance, but be flexible in their application and always try to ensure local training goals have priority.

12. Project Contacts

UK Project Leader

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Host Country Project Leaders

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Mr. Henry Kamau
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Course in Year 1
Mr. Raymond Vodauhe
INRAB
Cotonou,
BP 884
Benin

Course in Year 2

Professor Abdourahamane Sangaré
UFR Biosciences; Université de Cocody
22 BP 582 Abidjan 22
Côte d'Ivoire

Course in Year 3

Dr. Paul Blackmore
Conservationist
Mount Cameroon Project,
Limbe Botanic Garden,
PO Box 437,
Limbe SWP.
Cameroon

End Users

Specifically, the funding from the Darwin Initiative was used to train 100 managers, researchers and technicians from West and Central Africa in plant conservation and sustainable utilisation. Therefore, the end users of the training were those trained. The names, addresses and background of the trainees is listed in Appendices 4, 5 and 6.

Trainees

Detailed in Appendices 4, 5 and 6 for the three consecutive training courses.

Other Project Beneficiaries

One of the trainees selection criterion was that the trainees should be likely to pass on the skills they acquire during the course to others in their home country and throughout the region, so the initial training would act as a catalyst promoting further benefits to biodiversity conservation outside of the original group of trainees. It is difficult to quantify exact who these secondary users will be, but they are likely to be other workers involved in biodiversity conservation within West and Central Africa. Ultimately however all those living in the region will be beneficiaries of more effectively conserved and utilised biodiversity throughout the region, thus all these people are tertiary end users of the training provided using Darwin Initiative funds.

Other Key Players

There were no other key players involved.

Appendices

Appendix 1. Darwin Initiative Training Course 1 – Timetable - 27 October to 14 November 1997 - Cotonou, Benin

Week 1	Monday 27.10.97	Tuesday 28.10.97	Wednesday 29.10.97	Thursday 30.10.97	Friday 31.10.97	Saturday 01.11.97	Sunday 02.11.97
8:30 - 9:30	Registration AG / RV	Ecogeography 1 NM	Applied Taxon. 1 NM	Germplasm Use FM	On-farm 1 RC	Field Trip to Forestry Reserve NS / BS	Preparing for Field Work All
9:30 - 10:30	Official Opening Benin Rep. AG / NM	PGR Document. RC	Convention on Biological Div. LO	Plant Breeding FM	Reserve Design NM	Continued	Continued
11:00 - 12:00	Course Intro. NM / AG	Ecogeography 2 NM	Applied Taxon. 2 NM	Seed Collecting 2 NM	On-farm 2 RC	Continued	Continued
12:00 - 13:00	Complementary Con. Strat. 1 NM	Ethnobotany AKA	Plant Exploration 1 FM	Genebank Docum. RC	Collecting Idg. Knowledge AKA	Continued	Continued
14:00 - 15:00	History of PGR AG / HK	Ecogeography Prac. AKA / NM	Plant Exploration 2 FM	Beninian Bot. Div. BS	Field Document. NM / RC	Continued	Free
15:00 - 16:00	Species Evolution JME	Continued	Plant Exploration 3 FM	Conservation in the Cold Room 1 FM	Reserve Design Ex RC / NM	Continued	Free
16:30 - 17:30	Complementary Con. Strat. 2 NM	Continued	Seed Collecting 1 NM	Conservation in the Cold Room 2 FM	Continued	Continued	Free
17:30 - 18:30	Trainee Seminars	Trainee Seminars	Trainee Seminars	Trainee Seminars	Trainee Seminars	Continued	Free

Note: Coffee and tea will be between 10:30 - 11:00 and 16:00 - 16:30 each day with lectures; lunch will take place between 13:00 - 14:00.

Week 2	Monday 03.11.97	Tuesday 04.11.97	Wednesday 05.11.97	Thursday 06.11.97	Friday 07.11.97	Saturday 08.11.97	Sunday 09.11.97
8:30 - 9:30	Field Expedition to Mts. All	Field Expedition to Mts. All	Field Expedition to Mts. All	Field Expedition to Mts. All	Post-collecting Conservation AG	Characterisation / Evaluation Cassava NMA	Sight-seeing
9:30 - 11:30	Continued	Continued	Continued	Continued	In Situ Conserv. NM	Characterisation / Evaluation RV	Continued
11:00 - 12:00	Continued	Continued	Continued	Continued	Use of Molecular Tech. 1 AS	Characterisation / Evaluation Cowpea JD	Continued
12:00 - 13:00	Continued	Continued	Continued	Continued	Use of Molecular Tech. 2 AS	Group Seminars	Continued
14:00 - 15:00	Continued	Continued	Continued	Continued	Molecular Prac. AA / AS	Free	Continued
15:00 - 16:00	Continued	Continued	Continued	Continued	Continued	Free	Continued
16:30 - 17:30	Continued	Continued	Continued	Continued	Continued	Free	Continued
17:30 - 18:30	Continued	Continued	Continued	Continued	Group Seminars	Free	Continued

Note: The field work will involve the collection of both crops and their wild relatives, interviewing farmers and collation of indigenous knowledge.

Week 3	Monday 10.11.97	Tuesday 11.11.97	Wednesday 12.11.97	Thursday 13.11.97	Friday 14.11.97	Saturday 15.11.97	Sunday 16.11.97
8:30 - 9:30	Use of biotech. in PGR 1 SA	Reserve Manage. 2 AP	Field Visit to NGO / Farms RV / BS	National Prog. Development RV	Political Issues Relating to PGR SA	Free	Free
9:30 - 11:30	Reserve Site Assessment AP	Seed / Crop Protection BA / DK	Continued	Restoration Ecology 1 AP	Continued		
11:00 - 12:00	Use of biotech. in PGR 2 SA	Reserve Monitor. Tech. 1 AP	Continued	Network Development SA	Poster Presentations HK / All		
12:00 - 13:00	Reserve Manage. 1 AP	PGR Utilisation LE	Continued	Restoration Ecology 2 AP	Continued		
14:00 - 15:00	Germplasm Regeneration SA	Reserve Monitor. Tech. Prac. AP	Visit to Oil Palm Research Station RV / NS	Group Poster Development HK	Course Evaluation HK		
15:00 - 16:00	Seed / Crop Protection 1 BA	Continued	Continued	Continued	Continued		
16:30 - 17:30	Seed / Crop Protection 2 DK	Continued	Continued	Conservation Issues AP	Closing Ceremony		
17:30 - 18:30	Trainee Seminars	Trainee Seminars	Continued	Free	Free		

Note: FA - Franck Attere ; RC - Rick Crust ; AG - Ankon Goli ; HK - Henry Kamau ; NM - Nigel Maxted ; AP - Andy Pullin ; Le - Lejoly ; NS - Nestor Sokpon ; RV - Raymond Vodouhe ; DK - Dansou Kossou ; BO - Barthelemy Otehoun ; BA - Bonaventure Ahowendo ; SA - Sangare

Abdourahamane ; IA - Innocent Adjakidje ; AKA - Akpovi Akouegninou ; BS - Brice Sinsin ; AA - Adam Ahanchede ; NMA - Norbert Maroya ; LO - Lucien Owolabi ; JME - Jean-Marie Essou ; FM - Fanja Mondeil ; AS - Ambaliou Sanni.

Appendix 2. Darwin Initiative Training Course 2 – Timetable - Abidjan, Cote d'Ivoire 19.10.98 - 7.11.98

Week 1	Monday 19-10-98	Tuesday 20-10-98	Wednesday 21-10-98	Thursday 22-10-98	Friday 23-10-98	Saturday 24-10-98	Sunday 25-10-98
00-9.30	Registration AS/RV	Ecogeography 1 NM	Applied Taxonomy NM	Plant Exploration 2 NM	Plant Exploration 3 NM	Preparing for field work NM	Free
10-10.30	Official Opening AS/TY/KG/RV	Seed Physiology Aké Séverin	Genebank FM	Questionnaire design and theory RC	Ecogeography Prac. Herbarium NM/AK (UCA)	Continued	Free
11-12.00	Introduction NM/AH	Continued	Continued	Continued	Continued	Continued	Travel to field BOUAKE
13-13.00	Conservation of PGRFA NM	Ethnobotany AK	Plant Exploration 1 NM	Field documentation NM	Continued	Free	Continued
14-14.00	Lunch	Lunch	Lunch	Lunch	Lunch	Free	Lunch
15-15.00	Complementary Conservation Strategies AH	Ecogeography 2 NM	Conservation in Botanical gardens AK	Visit Botanical Garden (UCA) AK	Ecogeography Prac. Herbarium NM/AK (UCA)Continued	Free	Travel to field BOUAKE Continued
16-16.00	Continued	Selection of target taxa NM	Continued	Continued	Continued	Free	Continued
17-17.30	Complementary Conservation Strategies AH/RV	continued	West African PGR diversity RV	Continued	Continued	Free	Continued

AS=Anke van den Hurk; AK=Aman Kadio; AS=A.Sangare; KG=Koffi Goli; NM=Nigel Maxted; RC= Rick Crust; RV=Raymond
 Mxouhe TY=Tano Yao

Week 2	Monday 26-10-98	Tuesday 27-10-98	Wednesday 28-10-98	Thursday 29-10-98	Friday 30-10-98	Saturday 31-10-98	Sunday 1-11-98
00-9.30	Field work Wild species All	Field work Crops species 1 Market All	Visit PGR station in Bouaké Name? AS	Group seminars NM	Visit to La Mé Research station KE/Adon/Nazaire	Trainee seminars	Sight seeing
00-10.30	Continued	Continued	Continued	Continued	Continued	Continued	Continued
00-12.00	Continued	Field work Crops species 2 Farmer visits All	Continued	Continued	Continued	Continued	Continued
00-13.00	Continued	Continued	Travel back to Abidjan	Lunch	Continued	Continued	Continued
00-14.00	Lunch	Lunch	Lunch	Visit to the National Park of Banco WWF	Lunch	Free	Continued
00-15.00	Field work Wild species All. Continued	Field work Crops species 2 Farmer visits All. Continued	Stop over Yamoussokro	Continued	Trainee seminars	Free	Continued
00-16.00	Continued	Continued	Travel back to Abidjan Continued	Continued	Continued	Free	Continued
00-17.30	Continued	Continued	Continued	Continued	Continued	Free	Continued

Week 3	Monday 2-11-98	Tuesday 3-11-98	Wednesday 4-11-98	Thursday 5-11-98	Friday 6-11-98	Saturday 7-11-98	Sunday 8-11-98
8.30-9.30	PGR Utilisation FM	Characterization and evaluation BFL	<i>In vitro</i> conservation AN	PGR Documentation KP	Introduction-expe ctations All	Delivering presentations AH	Departures
9.30-10.30	Continued	Continued	Post collecting Seed conservation EA	Continued	Curriculum and training materials KP	Continued	
11.00-12.00	Biotechnology and PGR EA	Germplasm regeneration BL	Continued	Field genebanks BL	Continued	Organising a training event AH/RV/AS	
12.00-13.00	Continued	Sampling theory RC	<i>In situ</i> conservation NM	Community involvement in conservation NM	Group discussions	Group discussions	
13.00-14.00	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	
14.00-15.00	Molecular evaluation BFL	Sampling theory RC	Yam Biodiversity Conservation DA	National Programme Development KG/RV	Poster session discussions	Group discussions	
15.00-16.00	Continued	Political issues relating to PGR JZ	Visit to molecular characterization lab AS	Course evaluation HK/AH	Training materials development KP	Evaluating training effectiveness	
16.30-17.30	IPGRI HK	Continued	Continued	Closing ceremony part 1 TY/KG	Group discussions	Closing ceremony	

AH=Anke van den Hurk; AN =Ahousson N=Goran; AS=A.Sangare; BFL= Brian Ford-Lloyd; BL= Bennet Lartey; DA= Dansi Alexandre; EA= Elizabeth Acheampong; FM= Fanja Mondeil; HK= Henry Kamau; JZ= Jeanne Zoundjiekpon; KG= Koffi Goli; KP= Kevin Painting; NM=Nigel Maxted; RV=Raymond Vodouhe TY= Tano Yao

Appendix 3. Darwin Initiative Training Course 3 – Timetable - Limbe, Cameroon - 25th Oct / 12th Nov 1999

Week 1	Monday 25-10-99	Tuesday 26-10-99	Wednesday 27-10-99	Thursday 28-10-99	Friday 29-10-99	Saturday 30-10-99	Sunday 31-10-99
8.30-9.30	Registration AS	In situ cons. & Ethnobotany PE	In situ cons. & Ethnobotany PE	Ecogeography NM	Genetic Reserve Management ED	Trainee Seminars	Free
9.30-10.30	Official Opening AS / JMF / NM	Continued	Continued	Continued	Continued	Free	
11.00-12.00	Complementary Conservation NM	Continued	Continued	Genetic Reserve Design ED	Sampling Theory 2 RC	Selection of target taxa NM	Free
12.00-13.00	In situ conservation 1 PE	Continued	Continued	Continued	Continued	Continued	Free
13.00-14.00	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Free
14.00-15.00	Complementary Cons. Strategies KT	Continued	Continued	Sampling Theory 1 RC	Tour of Limbe market JN / CF	Trainee Seminars	Free
15.00-16.00	Intro to Limbe Bot. Gdns. PB	Continued	Continued	Continued	Continued	Continued	Free
16.30-17.30	Garden Tour PB	Continued	Continued	Continued	Market Seminars	Continued	Free

Week 2	Monday 1-11-99	Tuesday 2-11-99	Wednesday 3-11-99	Thursday 4-11-99	Friday 5-11-99	Saturday 6-11-99	Sunday 7-11-99
8.30-9.30	In Situ Conservation 1 NM	Sampling Practical RC / NM	Applied Taxonomy 1 NM	On-farm Conservation 1 NM / RC	On-farm Conservation Field Work NM / RC	On-farm Conservation Field Work NM / RC	Free
9.30-10.30	Genetic Markers & in situ 1 AS	Continued	Sampling Report 1 RC / NM	Questionnaire design and theory 1 RC	Continued	Continued	Free
11.00-12.00	Reserve Design Exercise 1 NM / RC	Continued	Sampling Report 2 RC / NM	Questionnaire design and theory 2 RC	Continued	Continued	Free
12.00-13.00	Genetic Markers & in situ 2 AS	Continued	Applied Taxonomy 2 NM	On-farm Conservation 2 NM / RC	Continued	Continued	Free
13.00-14.00	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
14.00-15.00	Reserve Design Exercise 2 NM / RC	Genetic Markers & in situ Prac. AS	Applied Taxonomy Prac NM / RC	Preparation for Field Work RC / NM	Continued	Continued	Free
15.00-16.00	Sampling Practical RC / NM	Continued	Continued	Continued	Continued	Continued	Free
16.30-17.30	Continued	Continued	Continued	Continued	Continued	Continued	Free

Week 3	Monday 8-11-99	Tuesday 9-11-99	Wednesday 10-11-99	Thursday 11-11-99	Friday 12-11-99	Saturday 13-11-99	Sunday 14-11-99
8.30-9.30	On-farm Field Work Report Back NM / RC	On-farm Discussion BD	Visit to on farm conservation project on Mt. Cameroon	WWF in West Africa JZ	PGR Networking RV	Departures	Departures
9.30-10.30	Continued	Continued	Continued	Continued	Continued		
11.00-12.00	On-farm Discussion BD	Continued	Continued	Politics and Ethics of PGR NM	Course evaluation RV		
12.00-13.00	Continued	Continued	Continued	Continued	Continued		
13.00-14.00	Lunch	Lunch	Lunch	Lunch	Lunch		
14.00-15.00	On-farm Discussion BD	Continued	Visit to reserves on Mt. Cameroon	PGR Access and Benefit sharing NM / JZ	National Programme Development RV		
15.00-16.00	Continued	Continued	Continued	Continued	Evaluation Poster Sessions RV		
16.30-17.30	Continued	Continued	Continued	IPGRI / FAO RV	Closing ceremony		

PB = Paul BLACKMORE (BU); RC = Rick CRUST (BU); BD = Bernadette DOUSSO (IPGRI); ED = Ehsan DULLOO (IPGRI); PE = Pablo EYZAGUIRRE (IPGRI); CF = Christophe FOMINGYAME (LBG); NM = Nigel MAXTED (BU); JN = Joseph NKEFOR (LBG); AS = Abous SANGARE (IPGRI); KT = Kar Ling TAO (FAO); RV = Raymond VODOUHE (IPGRI); JZ = Jeanne ZOUNDJIHEKPON (WWF)

Appendix 4. Darwin Initiative Training Course 1 - Participant list.

Benin

- | | |
|---|--|
| 1. Adihou Pierrette Ep Glele
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| 2. Koukè Alphonse
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| 3. Capo-Chichi Ludovic
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04 BP 1285 Cotonou - Bénin |
| 4. Adovelande Jacques
Cell and Molecular Biologist | ADOVELANDE CONSULTING
04 BP 0409 Cotonou - Bénin |
| 5. Dangou Justine née Sossou
Professor of Botany | Collège Polytechnique Universitaire (CPU) - UNB
BP 2009 |
| 6. Tandjiékpon M. André
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06 - BP 707 Cotonou - Bénin |
| 7. Quenum Florent J.-B.
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03 BP 3044 Cotonou - Bénin |
| <i>Burkina Faso</i> | |
| 8. Zida Didier
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03 BP 7047 Ouagadougou - Burkina Faso |
| <i>Cameroun</i> | |
| 9. Birang A. Madong
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Ivory Coast

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01 BP 633 Bouaké - Côte d'Ivoire

15. Konan Konan Jean-Louis
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Chad

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Appendix 5. Darwin Initiative Training Course 2 - Participant list.

- 1. Aissata Mamadou**
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- 5. Bakoumé Claude**
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Ingénieur Agronome - Chercheur IRAD/Cameroun
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- 6. Barrie Mohammed O.**
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- 8. Mme Boukary Habsatou**
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- 9. Mme Dantsey Hadyatou Barry**
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- 10. Diallo Thierno Mamadon Hady**
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- 11. Diarrassouba Nafan**
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- 12. Doumbouya M. L. Dialokoro**
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- 14. Mme Gl. Pierrette**
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