

CURRICULUM VITAE - 2005

Name: Anthony Charles Bellotti
Place of Birth: Staten Island, New York
Date of Birth: November 19, 1937
Citizenship: USA
Present Address: Centro Internacional de Agricultura Tropical (CIAT)
Colombia: Apartado Aéreo 6713, Cali
USA: 7343 NW 79th Terrace, Medley, FL 33166
Present Position: Senior Scientist, Cassava Entomologist
Years of Present position: 31

International Experience

37 years living in Latin America: Colombia, Brazil, El Salvador, Paraguay, Puerto Rico.

Professional travel to: Argentina, Australia, Belgium, Benin, Brazil, Cuba, China, Denmark, Dominican Republic, Ecuador, Egypt, El Salvador, England, Germany, Ghana, Haiti, Holland, Honduras, India, Indonesia, Italy, Kenya, Malaysia, Mexico, New Zealand, Nigeria, Panama, Paraguay, Peru, Philippines, Switzerland, Syria, Tanzania, Thailand, Togo, Uganda, Venezuela, others.

Languages: English (Native language) Spanish (Very good), Portuguese (Working ability).

Education

1955-1957 Long Island Agricultural and Technical Institute: State University of New York, Farmingdale, New York
Degree: Associate of Applied Science
Major: Plant Protection Technology

1964-1967 New Mexico State University, University Park, New Mexico
Degree: Bachelor of Science
Major: Agricultural Biology

1970-1974 Cornell University, Ithaca, New York
Degree: Ph.D.
Major: Entomology
Minors: Plant Pathology, Plant Breeding

Professional Experience

1975 to present	Senior Scientist, Cassava Entomologist, CIAT. Cali, Colombia.
1995 to 2004	Project Manager: Pest and Disease Management Project, CIAT, Cali, Colombia.
1989 -1990	Acting Program Leader, Cassava, CIAT. (See attached for description of responsibilities).
1979 - 1980	Coordinator of the CIAT Cassava Research Program. Coordinate and Supervise the research efforts of a multidisciplinary research team consisting of 11 senior scientists and more than 100 additional personnel.
1978 - 1979	Consultant and Visiting Entomologist with the Brazilian National Cassava and Fruticulture Research Center. Cruz das Almas, Brazil (as part of CIAT Staff).
1974 - 1975	Post Doctoral Fellow, Rockefeller Foundation. Entomologist, Cassava and Bean Program, CIAT.
1970 - 1974	Cornell University, Ithaca, NY. Research Assistant, Department of Entomology. Research in insect resistance in crops, especially corn.
1970	U.S.A. Peace Corps, Training Center Escondido, CA. Training Project Director.
1967 - 1970	U.S.A. Department of State. Foreign Service Officer: Peace Corps, Asuncion, Paraguay. Assistant Director to US. Peace Corps Program. Supervisor and Technical backstop in Paraguay Agricultural Extension Service. Vegetable, crop and small livestock production. Supervisor to about 150 P.C. volunteers.
1964 -1967	New Mexico State University, Las Cruces, New Mexico. U.S.A. Research Assistant, Department of Entomology. Research on Range Grass Entomology.
1965 - 1966	University of Oklahoma, Peace Corps Training Center, Norman, Oklahoma. Assigned to P.C. Training Center in Aricibo, Puerto Rico as Liaison Officer and Instructor in vegetable and small livestock production.
1962 - 1964	U.S.A. Peace Corps, El Salvador, Central America. Volunteer assigned to Salvadorean Agricultural Extension Service. Supervised projects in vegetable, tropical fruits, and small livestock production.
1957 - 1962	Wallerstein Division of Baxter Laboratories, Staten Island, New York. Technician in bacteriology and chemical fermentation laboratory and pilot plant.

Professional Organizations

1. Entomological Society of America
2. Entomological Society of Colombia (SOCOLEN)
3. Mandioca Society of Brazil
4. Florida (USA) Entomology Society
5. International Society of Tropical Root Crops
6. IAPPS: International Association of The Plant Protection Sciences
7. Alpha Zeta Foundation
8. New York Academy of Sciences
9. CBN (Cassava Biotechnology Network)

Awards

1. Premio "Hernán Alcaraz Viecco." Awarded by Sociedad Colombiana de Entomología, SOCOLEN for outstanding scientific research. First Prize for years 1985, 1986, 2001. Second Prize, 2004. Third Prize, 2005 (Shared with co-workers).
2. Premio "Francisco Luis Gallego." Awarded by Sociedad Colombiana de Entomología, SOCOLEN for outstanding entomological research in support of student thesis. First Prize, 1984, 1987, 1994, 1999. (Shared with students).
3. Outstanding Alumni Award. New Mexico State University, 1988.
4. CIAT Distinguished Service Award (Científico Distinguido de CIAT), 1990.
5. The King Baudouin Award, 1990. (Awarded to CIAT by Belgium government) for significant contribution to agriculture and human welfare in developing countries).
6. Award of Distinction: IPPC (International Plant Protection Congress), 1999.
7. Distinción Especial. La Sociedad Colombiana de Entomología (SOCOLEN) for a continued and fructiferous contribution to Colombia Entomology, 2001.
8. CIAT Award. Outstanding Principal Staff Achievement Award (OPSA), 2001.
9. Premio "Luis Hernando Pino Santiago." Awarded by Sociedad Colombiana de Entomología, SOCOLEN for outstanding entomological research in support of student thesis. First Prize. 2003 (Shared with students).

Publications: Author of more than 200 scientific publications in referred and non-referred journals, chapters in books, symposium and workshop papers.

References

1. Dr. David Pimentel. Professor of Entomology, Dept. of Entomology, Comstock Hall, Cornell University. Ithaca, NY 14853.
2. Dr. David Thurston. Dept. of Plant Pathology, Cornell University. Ithaca, NY 14853.
3. Dr. Peter Jennings. 6160 16th Ave. N.W. Naples, FL 33999.
4. Dr. Jorge Peña. University of Florida, 18905 S.W. 280th Street, Homestead, FL 33031.

5. Dr. Roy van Driesche. Department of Entomology. Fernald Hall. University of Massachusetts. Amherst, MA.
6. Dr. Steve Lapointe. USDA-ARS, U.S. Horticultural Research Laboratory, Research Entomologist, Ft. Pierce, FL 34945.
7. Dr. Art v. Schoonhoven. CIAT, Director Comercial. AA. 6713, Cali, Colombia, S.A.
8. Dr. Douglas Pachico. CIAT, Director Research. AA. 6713, Cali, Colombia, S.A.

Description of Responsibilities and Accomplishments

While Project Manager, CIAT's Integrated Pest and Disease Management Project (IPDM) consisted of 12 senior scientists, five entomologists, five plant pathologists and two plant virologist. Crops being worked on included cassava, beans, tropical pastures, maize, vegetables, and fruits. There is an African component of this project based in Tanzania and Uganda and researching pests and diseases of beans. The Global Whitefly IPM project is also housed within the IPDM project. Donor institutions and countries include Colombia (MADR), USAID, USDA, MFAT (New Zealand), IRD (France), COLCIENCIAS, PRONATA, Switzerland and others collaborates with numerous Colombian and international institutions.

The CIAT cassava research program consisted of approximately 10 senior scientists (Ph.D. level), numerous junior scientists (M.S. and B.S. level), technicians and field workers. Cassava Entomology is an integral part of this multidisciplinary team which has worldwide responsibility for cassava production research. There is a high degree of collaboration and coordination of research priorities and activities between the different disciplines. Cassava entomology research is most closely coordinated with that of plant pathology, virology, plant breeding, agronomy, and biotechnology.

Cassava entomological studies for which I am directly responsible has given emphasis in the following areas:

- I. Research on the insect and mite complex that damage cassava.
 - A. Bio-ecological Research
 1. A study of the insect and mite complexes associated with cassava in different climatic-edaphic zones. Six zones have been identified and a study is being carried out in four of these six zones, in collaboration with the pathology and breeding sections and several partners.
 2. Basic biology and ecology studies have been undertaken for numerous pests, including mites, thrips, hornworms, scales, mealybugs, lace bugs, stemborers, whiteflies, burrower bugs, fruit flies, shoot flies and white grubs. These studies include population dynamics, life tables, semiochemicals, fecundity, natural enemies, alternate hosts and others.
 - B. Economic Damage Studies
 1. Yield losses due to pest attack in cassava have been determined for mites, whiteflies, thrips, hornworms, mealybugs, burrower bugs, stemborers, fruit flies, and shoot flies. Yield losses include the effect on both quantity and quality of storage roots produced; yield losses due to white grubs in progress.
 2. Losses incurred in the production of cassava planting material (cassava is vegetatively propagated by stem cutting) due to injury by mites, scales, stemborers, fruit flies, shoot flies, and whiteflies have been determined.
 3. Present research efforts emphasize the determination of yield losses in relation to the age of the plant when attacked by pests. Cassava has a long growing cycle (8 to 20 months) and the determination of critical period in plant growth in relation to pest attack is important for feasible and economic control recommendations.

C. Control of Cassava Pests

Research in this area is directed toward finding or developing low cost, low input, but efficient methods of maintaining pest populations below economic injury levels. An integrated pest management scheme based on host plant resistance, biological control and cultural practices is being developed for the major cassava pests. A minimum amount of research is being directed toward the use of pesticides as they are considered too costly for continual use in cassava production.

1. Varietal resistance: Over six thousand varieties from the CIAT cassava germplasm bank have been, or are presently being evaluated for resistance to mites (3 species), thrips, whiteflies, mealybugs, lace bugs, and burrowing bugs. Mechanisms of resistance are also researched. High levels of resistance have been found for thrips and whiteflies; moderate levels of HPR for mites, lacebugs and burrower bugs.
2. Biological Control: We have presently identified more than 200 natural enemies of cassava pests including pathogens, predators, and parasites. Research priorities include studies of their effectiveness in reducing pest populations, the capacity as predators and parasites, biology and life tables, release, synchronization, and field evaluation.

Surveys throughout Central and South America have identified the natural enemy complex associated with cassava mites, mealybugs, whiteflies, hornworms.

Studies with entomopathogens to control burrowing bugs, whiteflies, white grubs, mites and other pests are in progress.

Studies with virus diseases of insects such as the cassava hornworm baculovirus are well advanced.

Studies on Biological insecticides such as *Bacillus thuringiensis* (Dipel) and other entomopathogens, etc. are carried out with several pests.

In recent years two commercial biopesticide products have been developed in collaboration with the local biopesticide industry. A commercial baculovirus for control of the cassava hornworm is now available to producers. A product based on *Metharhizium* for control of the burrower bug is also commercially available.

3. The effects of cultural practices on cassava pest populations are evaluated. These practices include crop rotation, intercropping, time of planting, spacing, etc.
4. Chemical Control: Studies on the use of insecticides for protection of planting material, and to determine the critical period for pesticide application in relation to pest populations and age of plant.
5. Research projects in other agroecosystems (vegetables, fruits and plantation crops) have been initiated.
6. Studies on the potential of wild *Manihot* species and interspecific crosses as a source of cassava pest resistance are in progress. Preliminary results indicate good sources of resistance to mites, mealybugs, whiteflies and hornworms are available in wild *Manihot* species.
7. Research underway to determine and identify the genetics and biochemical mechanisms of pest resistance in cassava.
8. Project on "Integrated control of soil pests of cassava and other crops funded and in progress."
9. Project on the IPM of Cassava Whiteflies is in progress.

- II. For a 12-month period during 1979 and 1980, and 1989 and 1990, I was Coordinator of the cassava Research Program. Responsibilities included the coordination and supervision of the research efforts of all scientists in the program, strategic planning program documentation, special projects, cooperative efforts with national programs in most Latin American countries and several countries in Asia.
For a 14-month period during 1978 and 1979 I was assigned as a CIAT Consultant to the Brazilian National Cassava Program (Centro Nacional de Pesquisa em Mandioca y Fruticultura) in Cruz das Almas, Bahia, Brazil. My responsibilities included coordinating collaborative efforts between the two institutions (CIAT and CNPMF) and organizing the cassava entomology program at the national center and at the state research level.
- III. Biological Control of Cassava Pests.
This project was designed for control of cassava pests in Africa. I supervised a project on the exploration of cassava mites and their predators, and of natural enemies of cassava mealybug and whiteflies in the Americas. In addition we carried out biological and ecological studies on these natural enemies. Selected natural enemies were sent to IITA (The International Institute of Tropical Agriculture) for continued research mass rearing and release. At present more than 80 species of mite predators have been found, many are unrecorded, and ten were shipped to Africa for release. In addition about 5 species of mealybug natural enemies have also been sent to Africa. Three predator mite species have become established in Africa.
- IV. Integrated Pest Management in Cassava.
The biological control of the cassava hornworm (*Erinnyis ello*) has been developed to the point that farmers in Brazil, Colombia and Venezuela are successfully controlling this pest. The program takes advantage of light trapping to predict hornworm outbreaks and the application of a baculovirus to achieve control. A commercial baculovirus product is available in Colombia.
- V. Resistance in cassava has been identified for mites (3 species), mealybugs, thrips, whiteflies, borrower bugs (*Cyrtomenus bergi*) and lace bugs. Mechanisms of resistance have been studied for mites; mealybugs, thrips, borrower bugs, and whiteflies. Hybrids containing resistance to mites, thrips, and whiteflies have been developed and released in Colombia. Present studies include genetic and biochemical characterization of resistance and the effect of resistance on biological control agents.
- VI. Projects financed by the Colombian MADR are developing IPM programs for control of the cassava hornworm, burrower bugs (*C. bergi*) and whiteflies. Emphasis is on host plant resistance, biological control and cultural control practices.
- VII. International Collaboration.
An important aspect of the cassava entomology and IPM position is the training of international scientists and the transfer of technology through collaborative research programs with national institutions. Researchers from the following countries have received training in the CIAT cassava entomology program. USA, Mexico, Panama, Costa Rica, Nicaragua, Cuba, The Dominican Republic, Venezuela, Argentina, Colombia, Ecuador, Peru, Paraguay, Brazil, Thailand, India, The Philippines, Malaysia, Indonesia, China, Germany, Holland, Denmark and Switzerland.

Collaborative research and technology transfer programs have included Cuba, Brazil, Colombia, Ecuador, Haiti, Paraguay, Thailand, The Philippines, Nigeria, Venezuela, Holland, Germany, Denmark, Switzerland, Benin and USA, and others.

- More than 60 students have received supervision in thesis training at the Agricultural Engineer and Biologist, MS., and Ph.D. levels.

- From 1982 to 1984 served in Africa Wide expert panel for biological control of cassava pests.
- Presently on the Executive Board of CLAYUCA.
- CIAT Past - representative to International Association of Plant Protection Sciences and the CGIAR System-wide IPM Program.

Publications

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2. WATTS, J.G.; BELLOTTI, A.C. 1967. Some new and little-known insects of economic importance on range grasses. *J. Econ. Entomology*. Vol. 60 No.4 0:961-63.
3. BELLOTTI, A.C.; GRACEN, V.R. 1973. Bearing down on borers. *Food and Life Science Quarterly*. Cornell University, Ithaca, NY.
4. PIMENTEL, D.L.; HURD, E.; BELLOTTI, A.C.; FOSTER, M.J.; OKA, I.N.; SHOLES, O.D.; WHITMAN, R.J. 1973. Food production and the energy crisis. *SCIENCE*. Copyright, 1973. By The American Association for the Advancement of Science. Vol. 182 p. 443-449.
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9. LOZANO, J.C.; BELLOTTI, A.C.; SCHOONHOVEN, A.V.; HOWELER, R.; DOLL, J.; HOWELL, D.; BATES, T. 1976. Field Problems in Cassava. CIAT, Cali, Colombia. Series GE-16. 127 p.
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11. PIMENTEL, D.; BELLOTTI, A.C. 1976. Parasite-Host Population Systems and Genetic Stability. *The American Naturalist*. Vol. 110, No.975. p. 877-888.

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13. BELLOTTI, A.C. 1977. Pest Management - A New Concept in Cassava Crop Protection. **In:** Noti-CIAT. Centro Internacional de Agricultura Tropical (CIAT). Cali, Colombia. Series AE-5.
14. BELLOTTI, A.C.; GUERRERO, J.M. 1977. Resistencia Varietal en Yuca Contra los Acaros *Tetranychus urticae* y *Mononychellus tanajoa*. Revista Colombiana de Entomología. Vol. 3 y 4, p. 87-91.
15. BELLOTTI, A.C.; SCHOONHOVEN, A.V. 1977. Miscellaneous Pests of Cassava. **In:** Brekelbaum, T., Bellotti, A. and Lozano, J.C., Eds. Cassava Protection Workshop, (November 7-12, 1977, Cali, Colombia). Proceedings. Centro Internacional de Agricultura Tropical (CIAT). Series CE-14. p. 233-238.
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17. ARIAS, B.; BELLOTTI, A.C. 1977. Eficiencia del *Bacillus thuringiensis* sobre el gusano cachón de yuca, *Erinnyis ello* en un programa de control biológico. Revista Colombiana de Entomología. Vol. 3(3-4):93-97.
18. DIAZ, R.O.; BELLOTTI, A.C.; SCHOONHOVEN, A.V. 1977. Descripción de los insectos presentes en el cultivo de la yuca en Colombia. **In:** Díaz, R.O. y Pinstруп Andersen, P. Eds. Descripción agroeconómica del proceso de producción de yuca en Colombia. Centro Internacional de Agricultura Tropical. Cali, Colombia. 17 p.
19. DORESTE, E.S.; ARIAS, C.; BELLOTTI, A.C. 1977. Field evaluations of cassava cultivars for resistance to Tetranychid mites. **In:** Brekelbaum, T., Bellotti, A. and Lozano, J.C. Eds. Cassava Protection Workshop. (November 7-12, 1978, Cali, Colombia). Proceedings, Centro Internacional de Agricultura Tropical. Cali, Colombia. Series CE-14. 1978. p. 161-164.
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21. LOZANO, J.C.; TORO, J.C.; CASTRO, A.; BELLOTTI, A.C. 1977. Production of cassava planting material. Centro Internacional de Agricultura Tropical, Cali, Colombia. Series GE-17. 31 p.
22. LOZANO, J.C.; TORO, J.C.; CASTRO, A.; BELLOTTI, A.C. 1977. Produção de material de plantio da mandioca. Centro Internacional de Agricultura Tropical, Cali, Colombia. Series GP-17. 28 p.
23. PEÑA, J.E.; BELLOTTI, A.C.. 1977. Estudios sobre las moscas del tallo y fruto de la yuca, *Anastrepha pickeli* y *Anastrepha manihoti*. Revista Colombiana de Entomología, Vol. 3(3-4). p. 79-86.

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25. BELLOTTI, A.C.; ARIAS, B. 1977. Biology, ecology and biological control of the cassava hornworm (*Erinnyis ello*). **In:** Brekelbaum, T., Bellotti, A.C. and Lozano, J.C. eds. Cassava Protection Workshop. (November 7-12, 1978, Cali, Colombia). Proceedings. Centro Internacional de Agricultura Tropical. Cali, Colombia. Series CE-14. 1978. p. 227-232.
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