

The World Bamboo Pioneers Award

In Honor of Bamboo Pioneers

Susanne Lucas
Executive Director, World Bamboo Organization
www.worldbamboo.net



With thanks for sponsorship provided by EPB

This initiative was started in 2009 at the 8th WBC in Bangkok. It is rooted in gratitude and in giving recognition. The World Bamboo Pioneer Award is a small gesture by the World Bamboo Organization yet very important to me as the Executive Director.

Living creatures all around the world depend on bamboo for their survival. This includes *Homo sapiens*. We all know that for centuries, human cultures have cultivated and utilized bamboo for their daily needs and through innovation improved their livelihoods and economies.

On the village level, farmers and craftsmen developed techniques which were passed down from generation to generation. In more modern times, man has looked to science for solutions and progress. Through committed research, we have discovered new approaches of how bamboo as a managed resource can lead to the betterment of mankind.

Dedication, determination, and collaboration are required to advance any scientific endeavor. There exist individuals whose lifelong commitment to bamboo science and culture deserve our attention and honored recognition. Today, as part of the 4th World Bamboo Workshop here in Binh Duong Province, we honor 3 of great Bamboo Pioneers:

Lynn G. Clark
Yves Crouzet
Jörg Stamm

Dr. Lynn G Clark

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Currently Dr. Clark serves as Director of the Ada Hayden Herbarium of Iowa State University and is a Professor and the Interim Chair of the Department of Ecology, Evolution and Organismal Biology (EEOB) at Iowa State University. She holds a Ph.D. in Botany, Iowa State University, (1986), B.S., Botany, Michigan State University (1979), and B.S., Horticulture, Michigan State University (1979).

Her area of expertise is in Plant Systematics and Evolution, and her research program involves four main lines of investigation: 1) bamboo systematics and evolution based on both morphological and molecular data; 2) floristic inventory and monography of Neotropical bamboos; 3) the evolution and development of vegetative features (e.g., leaf shape and 3-D leaf anatomy) within the grass family; and 4) functional trait ecology and evolution in fire-adapted Neotropical bamboos.

As director of Iowa State's Ada Hayden Herbarium for 32 years, she oversees the herbarium's 640,000 plant specimens—the 12th largest university collection of plants in the United States.

Today we honor Lynn as an expert in tropical woody bamboos, whose research and teaching have expanded our collective understanding of bamboos. As a high school student, Lynn worked summers with another World Bamboo Pioneer, grass expert Thomas Soderstrom at the National Museum of Natural History.

After earning her Ph.D. in botany from Iowa State in 1986, Clark was hired as a temporary assistant professor in the Department of Botany. At the time, her studies on bamboo and grasses were gaining traction in the research community.

Today, Lynn is the world's foremost expert on bamboo and its evolution. She's named and published more than 130 new species of bamboo which she discovered in Brazil, Colombia, Ecuador, Mexico and elsewhere. A new grass that a former student identified in Mexico bears her name, *Digitaria clarkiae*. Lynn's prowess has secured research grants from the National Science Foundation, the Brazilian government, the U.S. Department of Agriculture, the National Geographic Society and the Smithsonian Institution.

She's also an accomplished scholar who has published 161 articles in professional journals. Her research, which is primarily focused on bamboo classification, bamboo evolution and grass phylogeny, has garnered more than 7,800 citations, and she has authored several books and chapters on grasses, bamboos, and native Iowa plants.

It's hard for many people today to understand what it was like before the digital age, when we only had hard copy books as references. However, a ground-breaking reference entitled *American Bamboos* was published in 1999 by Smithsonian Books, authored by Emmett J. Judziewicz, Lynn G. Clark, Ximena Londoño (World Bamboo Pioneer 2018), Margaret J. Stern. Drawing on two decades of fieldwork in the United States and fifteen Latin American countries, the authors brought together current knowledge of the structure, ecology, human uses, conservation value, evolution, and diversity of the forty-one genera of American woody and herbaceous bamboos. For many, it broke the image of bamboo as strictly an Asian plant.

During her time at Iowa State, Clark has served on numerous university committees, taught introductory and upper-level courses and has been a dedicated mentor to hundreds of undergraduate, graduate, and post-doc students. She's earned numerous awards including the College of Liberal Arts and Sciences International Service Award and an Iowa State University Award for Outstanding Achievement in Research. She was selected as a Dean's Lecturer in spring 2017. Most recently, she won a 2021 Regents Award for Faculty Excellence.

Within the bamboo community, most notably the American Bamboo Society and its Chapters, the Bamboo of the America's project, the Colombian Bamboo Society, and the international Bamboo Phylogeny Group formed in 2005, and WBO, Lynn has been a constant consultant on all issues of taxonomy, nomenclature, and evolution of bamboos for decades. Members of the Bamboo Phylogeny Group include 20 researchers in 10 countries. Leaf material was collected from representative species of all tribes in the grass subfamily Bambusoideae (bamboos). DNA sequencing of 5 genetic loci in the bamboo chloroplast genome was used to compare mutations and estimate the first complete tribal and subtribal phylogeny of bamboos. Thanks to the efforts of the group, the analysis is notable for its species sampling, its rigorous testing of the estimate, and its robust results.

Lynn loves teaching, and anyone who has heard her present at a meeting or conference comes away knowing much more than they imagined. Thanks to much of Lynn's efforts, the Bamboo Phylogeny Group used its estimate of bamboo relationships to produce a revised scientific classification for bamboos. The classification was presented at the 9th World Bamboo Congress in Antwerp, Belgium in April 2012.

Unfortunately, Lynn could not be with us today in Vietnam; she has far too much responsibility at the University at the beginning of the semester to join us. However, we are fortunate to have a recorded presentation by her for our program on Wednesday, 18 September.

Thank you, Lynn, for all your pioneering in the discovery of bamboo taxonomy, evolution and ecology. We are so grateful.

Dr. Lynn G. Clark's publications:

Year	Citation
2021	Chalopin D, Clark LG , Wysocki WP, Park M, Duvall MR , Bennetzen JL . Integrated Genomic Analyses From Low-Depth Sequencing Help Resolve Phylogenetic Incongruence in the Bamboos (Poaceae: Bambusoideae). <i>Frontiers in Plant Science</i> . 12: 725728. PMID 34567039 DOI: 10.3389/fpls.2021.725728
2020	Gallaher TJ , Akbar SZ, Klahs PC , Marvet CR, Senske AM, Clark LG , Strömberg CAE. 3D shape analysis of grass silica short cell phytoliths (GSSCP): a new method for fossil classification and analysis of shape evolution. <i>The New Phytologist</i> . PMID 32446281 DOI: 10.1111/Nph.16677
2020	Andrade RS, Pianissola EM, Vinícius-Silva R, da Mota AC, Clark LG , de Oliveira RP. A New Species of <i>Merostachys</i> (Poaceae: Bambusoideae: Bambuseae) from the Montane Atlantic Forest of Southern Bahia, Brazil <i>Systematic Botany</i> . 45: 69-74. DOI: 10.1600/036364420X15801369352315
2020	Ferreira FM, Welker CAD, Clark LG , Oliveira RP. <i>Eremitis limae</i> (Poaceae, Bambusoideae), a new species of herbaceous bamboo endemic to the Atlantic Forest of Bahia, Brazil <i>Phytotaxa</i> . 454: 277-284. DOI: 10.11646/Phytotaxa.454.4.5
2020	Vinícius-Silva R, Clark LG , Fregonezi JN, Santos-Gonçalves AP. Epitypification and emended description of <i>Merostachys bifurcata</i> (Poaceae: Bambusoideae: Bambuseae: Arthrostylidiinae) <i>Phytotaxa</i> . 452: 104-109. DOI: 10.11646/Phytotaxa.452.1.11
2020	Clark LG , Londoño X, Tyrrell CD , Judziewicz EJ . Convergence strikes again in the Neotropical woody bamboos (Poaceae: Bambusoideae: Bambuseae): a new Andean genus and a new species <i>Botanical Journal of the Linnean Society</i> . 192: 21-33. DOI: 10.1093/Botlinnean/Boz047
2020	Vinícius-Silva R, Clark LG , Fregonezi JN, Santos-Gonçalves AP. Morphological evolution and molecular phylogenetics of the <i>Merostachys</i> clade (Poaceae: Bambusoideae: Bambuseae: Arthrostylidiinae) based on multi-locus plastid sequences <i>Botanical Journal of the Linnean Society</i> . DOI: 10.1093/Botlinnean/Boaa057

2020	Ferreira FM, Welker CAD, Santos-Gonçalves AP, Clark LG , Oliveira RP. A new species of <i>Eremitis</i> (Poaceae, Bambusoideae) from Rio Doce State Park, Minas Gerais, Brazil, marks the furthest inland distribution of the genus <i>Brittonia</i> . 72: 133-140. DOI: 10.1007/S12228-019-09603-X
2020	Carroll HM , Wanamaker AD , Clark LG , Wilsey BJ. Ragweed and sagebrush pollen can distinguish between vegetation types at broad spatial scales <i>Ecosphere</i> . 11. DOI: 10.1002/Ecs2.3120
2019	Ferreira FM, Oliveira RP, Dorneles Welker CA, da Costa Dórea M, Luísa de Carvalho Lima A, Laiane C Oliveira I, de Assis Ribeiro Dos Santos F, van den Berg C, Clark LG . Phylogenetic relationships within Parnianinae (Poaceae: Bambusoideae: Olyreae) with emphasis on <i>Eremitis</i> : evidence from nuclear and plastid DNA sequences, macromorphology, and pollen ectexine patterns. <i>Molecular Phylogenetics and Evolution</i> . 106541. PMID 31228555 DOI: 10.1016/J.Ympev.2019.106541
2019	Gallaher TJ , Adams DC , Attigala L , Burke SV , Craine JM , Duvall MR , Klahs PC , Sherratt E , Wysocki WP , Clark LG . Leaf shape and size tracks habitat transitions across forest-grassland boundaries in the grass family (Poaceae). <i>Evolution; International Journal of Organic Evolution</i> . PMID 30874302 DOI: 10.1111/Evo.13722
2019	FADRIQUE B, PIANISSOLA EM, FEELEY KJ , CLARK LG . A preliminary revision of <i>Chusquea</i> sect. <i>Swallenochloa</i> (Bambuseae, Bambusoideae, Poaceae) in Peru including the description of two new species and the resurrection of two other species <i>Phytotaxa</i> . 418: 171-194. DOI: 10.11646/Phytotaxa.418.2.3
2019	Andrade RS, Pianissola EM, Vidal KVDA, Mota ACD, Clark LG , Oliveira RP. <i>Chusquea parviligulata</i> (Poaceae: Bambusoideae: Bambuseae): a new species of <i>C.</i> subg. <i>Chusquea</i> endemic to the Atlantic rainforest of Bahia, Brazil <i>Phytotaxa</i> . 405: 27-36. DOI: 10.11646/Phytotaxa.405.1.3
2019	Jesus-Costa CD, Viana PL, Clark LG , Santos-Gonçalves AP. <i>Colantheria longipetiolata</i> (Poaceae: Bambusoideae), a new species of woody bamboo from the Brazilian Atlantic forest <i>Phytotaxa</i> . 401: 133-138. DOI: 10.11646/Phytotaxa.401.2.5
2019	Clark LG , Mason JJ. Redescription of <i>Chusquea perligulata</i> (Poaceae: Bambusoideae: Bambuseae: Chusqueinae) and description of a similar but new species of <i>Chusquea</i> from Ecuador <i>Phytotaxa</i> . 400: 227-236. DOI: 10.11646/Phytotaxa.400.4.2
2019	Leandro TD, Scatena VL, Clark LG . Comparative leaf blade anatomy and micromorphology in the systematics and phylogeny of Bambusoideae (Poaceae: Poales) <i>Botanical Journal of the Linnean Society</i> . 192: 165-183. DOI: 10.1093/Botlinnean/Boz074

2019	Carvalho MLSd, Jesus ISDd, Silva RMd, Leite KRB, Schnadelbach AS, Clark LG , Oliveira RPd. Cryptic speciation in the herbaceous bamboo genus <i>Piresia</i> (Poaceae, Olyreae) <i>Botanical Journal of the Linnean Society</i> . 192: 82-96. DOI: 10.1093/Botlinnean/Boz072
2019	Oliveira ILC, Matos AO, Silva C, Carvalho MLS, Tyrrell CD , Clark LG , Oliveira RP. Delving deeper into the phylogenetics of the herbaceous bamboos (Poaceae, Bambusoideae, Olyreae): evaluation of generic boundaries within the <i>Parodiolyra/Raddiella</i> clade uncovers a new genus <i>Botanical Journal of the Linnean Society</i> . 192: 61-81. DOI: 10.1093/Botlinnean/Boz049
2019	Oliveira RP, Silva C, Welker CAD, Dórea MDC, Oliveira ILC, Vieira JPS, Leite KRB, Clark LG . Reinterpreting the phylogenetic position, systematics and distribution of the <i>Raddia-Sucrea</i> lineage (Poaceae, Olyrinae), with a new monotypic and endangered herbaceous bamboo genus from Brazil <i>Botanical Journal of the Linnean Society</i> . 192: 34-60. DOI: 10.1093/Botlinnean/Boz048
2019	Vieira JPS, Schnadelbach AS, Hughes FM, Jardim JG, Clark LG , Oliveira RPD. Ecological niche modelling and genetic diversity of <i>Anomochloa marantoidea</i> (Poaceae): filling the gaps for conservation in the earliest-diverging grass subfamily <i>Botanical Journal of the Linnean Society</i> . 192: 258-280. DOI: 10.1093/Botlinnean/Boz039
2019	Ely F, Rada F, Fermin G, Clark LG . Ecophysiology and genetic diversity in species of the bamboo <i>Chusquea</i> in the high Andes, Venezuela <i>Plant Ecology & Diversity</i> . 12: 555-572. DOI: 10.1080/17550874.2019.1673847
2018	Leandro TD, Rodrigues TM, Clark LG , Scatena VL. Fusoid cells in the grass family Poaceae (Poales): a developmental study reveals homologies and suggests new insights into their functional role in young leaves. <i>Annals of Botany</i> . 122: 833-848. PMID 30395186 DOI: 10.1093/Aob/Mcy025
2018	Klahs PC , Gallaher TJ , Clark LG . A refined method for digitally modeling small and complex plant structures in 3D: An example from the grasses (Poaceae). <i>Applications in Plant Sciences</i> . 6: e01177. PMID 30214840 DOI: 10.1002/Aps3.1177
2018	Li M, An H, Angelovici R , Bagaza C, Batushansky A, Clark L , Coneva V, Donoghue MJ , Edwards E , Fajardo D, Fang H, Frank MH, Gallaher T , Gebken S, Hill T , et al. Topological Data Analysis as a Morphometric Method: Using Persistent Homology to Demarcate a Leaf Morphospace. <i>Frontiers in Plant Science</i> . 9: 553. PMID 29922307 DOI: 10.3389/Fpls.2018.00553
2018	Saarela JM, Burke SV, Wysocki WP, Barrett MD, Clark LG , Craine JM, Peterson PM, Soreng RJ, Vorontsova MS, Duvall MR . A 250 plastome phylogeny of the grass family (Poaceae): topological support under different data partitions. <i>PeerJ</i> . 6: e4299. PMID 29416954 DOI: 10.7717/Peerj.4299
2018	Santos-Gonçalves AP, Jesus-Costa Cd, Filgueiras TS, Clark LG . A Revision of <i>Colantheria</i> (Poaceae: Bambusoideae: Bambuseae: Arthrostylidiinae) and New Species for the Atlantic Forest <i>Systematic Botany</i> . 43: 956-974. DOI: 10.1600/036364418X697652

2018	Jesus-Costa Cd, Clark LG , Santos-Gonçalves AP. Molecular Phylogeny of Atractantha, and the Phylogenetic Position and Circumscription of Athroostachys (Poaceae: Bambusoideae: Bambuseae: Arthrostylidiinae) <i>Systematic Botany</i> . 43: 656-663. DOI: 10.1600/036364418X697373
2018	Tyrrell CD , Londoño X, Prieto RO, Attigala L , McDonald K, Clark LG . Molecular phylogeny and cryptic morphology reveal a new genus of West Indian woody bamboo (Poaceae: Bambusoideae: Bambuseae) hidden by convergent character evolution <i>Taxon</i> . 67: 916-930. DOI: 10.12705/675.5
2018	Jesus-Costa CD, Clark LG , Santos-Gonçalves AP, Londoño X. Eremocaulon triramis (Poaceae: Bambusoideae: Bambuseae: Guaduinae): a new species from the Atlantic rainforest of the State of Espírito Santo, Brazil <i>Phytotaxa</i> . 375: 104-112. DOI: 10.11646/Phytotaxa.375.1.7
2018	Vidal KVDA, Welker CAD, Oliveira ILC, Mota ACD, Oliveira RP, Clark LG . A new species of Chusquea subg. Chusquea (Poaceae—Bambusoideae—Bambuseae) from Minas Gerais, Brazil: morphological evidence and phylogenetic placement within the Euchusquea clade <i>Phytotaxa</i> . 365: 73-88. DOI: 10.11646/Phytotaxa.365.1.3
2018	Pianissola EM, Parma DF, Gonçalves APS, Clark LG . Two new species of Chusquea subg. Swallenochloa (Poaceae: Bambusoideae: Bambuseae) from Minas Gerais, Brazil, and complete description of C. caparaensis <i>Phytotaxa</i> . 358: 235-250. DOI: 10.11646/Phytotaxa.358.3.2
2018	Ruiz-Sanchez E, Clark LG , Mejía-Saulés T, Lorea-Hernández F. A new species of Merostachys (Poaceae: Bambusoideae: Bambuseae: Arthrostylidiinae) with the northernmost distribution of the genus <i>Phytotaxa</i> . 344: 31-38. DOI: 10.11646/Phytotaxa.344.1.4
2017	Attigala L , Gallaher T, Nason J, Clark LG . Genetic diversity and population structure of the threatened temperate woody bamboo Kuruna debilis (Poaceae: Bambusoideae: Arundinarieae) from Sri Lanka based on microsatellite analysis <i>Journal of the National Science Foundation of Sri Lanka</i> . 45: 53. DOI: 10.4038/Jnsfsr.V45I1.8038
2017	ATTIGALA L , FUENTES AF, CLARK LG . Chusquea sect. Tenellae (Bambuseae, Bambusoideae, Poaceae), a taxonomic revision of a new section from South America <i>Phytotaxa</i> . 324: 239. DOI: 10.11646/Phytotaxa.324.3.2
2017	Mota AC, Oliveira RP, Carvalho-Sobrinho JG, Vidal KVA, Clark LG . Chusquea kleinii, a new bamboo from the Atlantic forests of Brazil segregated from C. capituliflora (Poaceae: Bambusoideae) <i>Phytotaxa</i> . 313: 166-174. DOI: 10.11646/Phytotaxa.313.2.2
2017	Ruiz-Sanchez E, Castro-Castro A, Clark LG . Chusquea septentrionalis sp. nov. (Poaceae: Bambusoideae) from the Madrean region in Durango, Mexico <i>Nordic Journal of Botany</i> . 35: 546-551. DOI: 10.1111/Njb.01606
2017	Soreng RJ, Peterson PM, Romaschenko K, Davidse G, Teisher JK, Clark LG , Barberá P, Gillespie LJ, Zuloaga FO. A worldwide phylogenetic classification of the Poaceae (Gramineae) II: An update and a comparison of two 2015 classifications <i>Journal of Systematics and Evolution</i> . 55: 259-290. DOI: 10.1111/Jse.12262

2017	Leandro TD, Scatena VL, Clark LG . The contribution of foliar micromorphology and anatomy to the circumscription of species within the <i>Chusquea ramosissima</i> informal group (Poaceae, Bambusoideae, Bambuseae) <i>Plant Systematics and Evolution</i> . 303: 745-756. DOI: 10.1007/S00606-017-1404-0
2016	Burke SV, Lin CS, Wysocki WP, Clark LG , Duvall MR . Phylogenomics and Plastome Evolution of Tropical Forest Grasses (Leptaspis, Streptochaeta: Poaceae). <i>Frontiers in Plant Science</i> . 7: 1993. PMID 28083012 DOI: 10.3389/Fpls.2016.01993
2016	Burke SV, Wysocki WP, Zuloaga FO, Craine JM, Pires JC , Edger PP , Mayfield-Jones D, Clark LG , Kelchner SA, Duvall MR . Evolutionary relationships in Panicoid grasses based on plastome phylogenomics (Panicoideae; Poaceae). <i>Bmc Plant Biology</i> . 16: 140. PMID 27316745 DOI: 10.1186/S12870-016-0823-3
2016	Attigala L , Wysocki WP, Duvall MR , Clark LG . Phylogenetic estimation and morphological evolution of Arundinarieae (Bambusoideae: Poaceae) based on plastome phylogenomic analysis. <i>Molecular Phylogenetics and Evolution</i> . PMID 27164472 DOI: 10.1016/J.Ympev.2016.05.008
2016	Attigala L , De Silva NI, Clark LG . Simple Web-based interactive key development software (WEBiKEY) and an example key for <i>Kuruna</i> (Poaceae: Bambusoideae). <i>Applications in Plant Sciences</i> . 4. PMID 27144109 DOI: 10.3732/Apps.1500128
2016	Vinícius-Silva R, Cupertino-Eisenlohr MA, Clark LG , Santos-Gonçalves AP. Two New Species of <i>Merostachys</i> (Poaceae: Bambusoideae: Bambuseae: Arthrostylidiinae) from Minas Gerais State, Brazil <i>Systematic Botany</i> . 41: 959-965. DOI: 10.1600/036364416X694062
2016	Attigala L , Kathriarachchi HS, Clark LG . Taxonomic revision of the temperate woody bamboo genus <i>kuruna</i> (Poaceae: Bambusoideae: Arundinarieae) <i>Systematic Botany</i> . 41. DOI: 10.1600/036364416X690570
2016	Parma DF, Pianissola EM, Vinícius-Silva R, Clark LG , Santos-Gonçalves AP. Two new species of <i>Merostachys</i> (Poaceae: Bambusoideae) from the Brazilian Atlantic forest <i>Phytotaxa</i> . 267: 219-227. DOI: 10.11646/Phytotaxa.267.3.5
2016	Duvall MR , Fisher AE, Columbus JT , Ingram AL, Wysocki WP, Burke SV, Clark LG , Kelchner SA. Phylogenomics and plastome evolution of the chloridoid grasses (Chloridoideae: Poaceae) <i>International Journal of Plant Sciences</i> . 177: 235-246. DOI: 10.1086/684526
2015	Cotton JL, Wysocki WP, Clark LG , Kelchner SA, Pires JC , Edger PP , Mayfield-Jones D, Duvall MR . Resolving deep relationships of PACMAD grasses: a phylogenomic approach. <i>Bmc Plant Biology</i> . 15: 178. PMID 26160195 DOI: 10.1186/S12870-015-0563-9
2015	Saarela JM, Wysocki WP, Barrett CF , Soreng RJ, Davis JI , Clark LG , Kelchner SA, Pires JC , Edger PP , Mayfield DR, Duvall MR . Plastid phylogenomics of the cool-season grass subfamily: clarification of relationships among early-diverging tribes. <i>Aob Plants</i> . 7. PMID 25940204 DOI: 10.1093/Aobpla/Plv046

2015	Wysocki WP, Clark LG , Attigala L, Ruiz-Sanchez E, Duvall MR. Evolution of the bamboos (Bambusoideae; Poaceae): a full plastome phylogenomic analysis. <i>Bmc Evolutionary Biology</i> . 15: 50. PMID 25887467 DOI: 10.1186/S12862-015-0321-5
2015	Ruiz-Sanchez E, Clark LG , Londoño X, Mejía-Saulés T, Cortés G. Morphological keys to the genera and species of bamboos (Poaceae: Bambusoideae) of Mexico <i>Phytotaxa</i> . 236: 1-24. DOI: 10.11646/Phytotaxa.236.1.1
2015	Ruiz-Sanchez E, Mejía-Saulés T, Cortés G, Clark LG . <i>Chusquea gibcooperi</i> (Poaceae: Bambusoideae: Bambuseae: Chusqueinae), a new species endemic to Mexico <i>Brittonia</i> . 67: 227-232. DOI: 10.1007/S12228-015-9377-1
2014	Triplett JK, Clark LG , Fisher AE, Wen J. Independent allopolyploidization events preceded speciation in the temperate and tropical woody bamboos. <i>The New Phytologist</i> . 204: 66-73. PMID 25103958 DOI: 10.1111/Nph.12988
2014	Oliveira RP, Clark LG , Schnadelbach AS, Monteiro SH, Borba EL, Longhi-Wagner HM, van den Berg C. A molecular phylogeny of Raddia and its allies within the tribe Olyreae (Poaceae, Bambusoideae) based on noncoding plastid and nuclear spacers. <i>Molecular Phylogenetics and Evolution</i> . 78: 105-17. PMID 24811091 DOI: 10.1016/J.Ympev.2014.04.012
2014	Burke SV, Clark LG , Triplett JK, Grennan CP, Duvall MR. Biogeography and phylogenomics of New World Bambusoideae (Poaceae), revisited. <i>American Journal of Botany</i> . 101: 886-891. PMID 24808544 DOI: 10.3732/Ajb.1400063
2014	Fisher AE, Clark LG , Kelchner SA. Molecular phylogeny estimation of the bamboo genus <i>Chusquea</i> (Poaceae: Bambusoideae: Bambuseae) and description of two new subgenera <i>Systematic Botany</i> . 39: 829-844. DOI: 10.1600/036364414X681554
2014	Wysocki WP, Clark LG , Kelchner SA, Burke SV, Pires JC, Edger PP, Mayfield DR, Triplett JK, Columbus JT, Ingram AL, Duvall MR. A multi-step comparison of short-read full plastome sequence assembly methods in grasses <i>Taxon</i> . 63: 899-910. DOI: 10.12705/634.5
2014	Ruiz-Sanchez E, Mejía-Saulés T, Clark LG . <i>Chusquea nedjaquithii</i> (Poaceae: Bambusoideae, Bambuseae, Chusqueinae), a new endemic species from Oaxaca, Mexico <i>Phytotaxa</i> . 184: 23-30. DOI: 10.11646/Phytotaxa.184.1.3
2014	Attigala L, Triplett JK, Kathriarachchi HS, Clark LG . A new genus and a major temperate bamboo lineage of the Arundinarieae (Poaceae: Bambusoideae) from Sri Lanka based on a multi-locus plastid phylogeny <i>Phytotaxa</i> . 174: 187-205. DOI: 10.11646/Phytotaxa.174.4.1
2014	Ruiz-Sanchez E, Mejía-Saulés T, Clark LG . A new endangered species of <i>Chusquea</i> (Poaceae: Bambusoideae) from the Acatlán volcano in central Veracruz, Mexico, and keys to the Mexican <i>Chusquea</i> species <i>Phytotaxa</i> . 163: 16-26. DOI: 10.11646/Phytotaxa.163.1.2

2014	Mota AC, Pérez IJ, De Oliveira RP, Clark LG . <i>Chusquea yungasensis</i> (Bambusoideae, Poaceae): A new species of woody bamboo from South America and the first record of subgenus <i>Rettbergia</i> in Bolivia <i>Phytotaxa</i> . 161: 211-218. DOI: 10.11646/Phytotaxa.161.3.4
2014	Mota AC, De Oliveira RP, Clark LG . Increasing our knowledge of Brazilian bamboos: Two new species of <i>Chusquea</i> subg. <i>Rettbergia</i> (Bambusoideae, Poaceae) <i>Phytotaxa</i> . 161: 201-210. DOI: 10.11646/Phytotaxa.161.3.3
2013	Kelchner SA, Clark L , Cortés G, Oliveira RP, Dransfield S, Filgueiras T, Fisher AE, Guala GF, Hodkinson T, Judziewicz E, Kumar M, Li DZ, Londoño X, Teresa Mejia M, Santos-Gonçalves AP, et al. Higher level phylogenetic relationships within the bamboos (Poaceae: Bambusoideae) based on five plastid markers <i>Molecular Phylogenetics and Evolution</i> . 67: 404-413. PMID 23454093 DOI: 10.1016/j.ympev.2013.02.005
2013	Clark LG , Ely F. Two new species of <i>Chusquea</i> (Poaceae: Bambusoideae: Bambuseae) from Venezuela and a redescription of <i>Chusquea purdieana</i> <i>Systematic Botany</i> . 38: 1087-1095. DOI: 10.1600/036364413X674922
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Yves Crouzet

1947 -

Some might say Yves Crouzet has had a charmed life, having the opportunity to live and work among two beautiful bamboo gardens in southern Europe. His earlier life was centered in the South of France, actively developing the magnificent estate of La Bamboueraie de Prafrance. This paradise of a garden was started in 1855 and contained an important collection of bamboos. In 1976 his wife had inherited this place from her grandfather, Eugene Mazel (1826 – 1890), and with their combined efforts, and four children, La Bamboueraie became the most sought-after private garden in France, with 350,000 visitors a year. There he fell in love with the bamboos, and the 1980s brought a great deal of travel for Mr. Crouzet, as he set out around the world in search of new bamboo species to enrich the collection. These trips resulted in an important network of international contacts and initiatives to promote bamboo abroad and led to the creation of the European Bamboo Association, which later broke into national societies throughout Europe starting as the French Bamboo Society. After attending the first international bamboo conference in Mayaguez, Puerto Rico hosted by the American Bamboo Society, Yves hosted and organized the Second World Bamboo Congress at La Bamboueraie in 1988. With this, La Bamboueraie became a mecca for bamboo enthusiasts from everywhere, and bamboo became a very trendy ornamental plant throughout European gardens.

With an expanding collection of bamboos that had never been grown in Europe, Yves became aware of erratic winters that were damaging the more tender bamboos, and he knew he needed to find a better climatic region for growing as many types of bamboo as possible. Over thirty years ago he bought 100 hectares of land at Herdade das Fontes, in São Teotónio, Odemira, Portugal. Located 200 km south of Lisbon, close to the Atlantic coast, it now produces temperate bamboo, some resistant to -20°C and many species of tropical bamboo. To his delight, bamboos grew better and much faster here. He grew the nursery, growing many species in all sizes of containers, and quickly became the epicenter of a business fueled by orders from garden centers, landscapers, pharmaceuticals and even zoos from all over Europe. La Bamboueraie de Prafrance had been his home, garden, business and focus until in 2005, when he moved to Portugal full-time.

Yves' dream has proven that subtropical bamboos have a home in southern Europe. The nursery and park now employ over 30 people, and it continues to work in partnership with La Bamboueraie and Les Pepinières de la Bamboueraie nurseries, although they are completely independent entities.

He is not just a nurseryman; he is an expert. Yves has authored several books: *Les bambous*, published by RUSTICA in 1981 (second edition 1999, third edition 2008); *Des bambous dans tous les jardins*, co-authored with Michel Jeury, published by RUSTICA, 1996; *Bambous*, in partnership with the French naturalist photographer Paul Starosta and edited by Taschen in 1998, then translated into German, English and Dutch; *Les Bambous: Les espèces, la plantation, l'entretien*, published by RUSTICA, 1999; *Bambous*, co-authored with Christine Recht, Max F. Wetterwald, and Werner Simon, published by Eugen Ulmer, Paris, 2000; *La bamboueraie, un jardin de bambous*, co-authored with Louisa Jones, published by Actes Sud, 2004; *Les bambous pas à pas : Optez pour un esprit neuf dans votre Jardin*, co-authored with his son, Simon Crouzet, published by 2005; *Travailler le bambou*, co-authored with Bresson, Aïté; Keomany, Ouneheuane, published in 2005; and *Bambous: Utilisations - Culture – Espèces*, published by RUSTICA, 2016.

He also wrote many articles for the European Bamboo Society newsletter, presented at national and international conferences, guided tours to hundreds of tourists, continues to mentor students, as well as teaching every day to anyone asking about bamboo!

When Yves talks about bamboo, his passion for the plant is immediately revealed. He is a great storyteller, a collector, a historian, a grower, a designer, a traveler and still, a student, yearning to learn all there is about bamboo. To quote Yves: “Bamboo is a plant that has always fascinated me because it is such a prodigal plant that it can be used for a wide variety of purposes: construction, musical instruments, irrigation pipes, decoration, soil fixing and even food. Today, I am convinced that it will not be just that. Between man and bamboo, a magical complicity was established. Whether for the gardener, for the craftsman, for the painter, for the poet, for the philosopher, or for everyone else. The sight, the contact, the shadow, the whisper of the bamboo, reassures, inspires, and enriches. For millennia, different civilizations have known this. In the West, we are now discovering the inexhaustible possibilities of this plant”.

In the Bambuparque, there is a bamboo pavilion, built in accordance with the traditional bamboo construction rules of Brazil. It stands as an example of the application of bamboo to the world of architecture. Yves wants to design more bamboo houses, following the different building styles in other countries like Japan, China, and Colombia. He wants to show the potentials of bamboo as a sustainable building material. These are to be built for tourism, and used for workshops and meetings to promote bamboo, to teach about bamboo in its most diverse applications.

For Yves, there is no stopping point. He continues to pioneer all that can be done with bamboo, for the good of the region, southern Europe and the planet. We are so very fortunate that he can be with us at this 4th World Bamboo Workshop. Merci, Yves!

Jörg Stamm

1963 –

Jörg Stamm was born in Olpe, Germany. He studied and worked as a cabinetmaker and carpenter journeyman through the 1980's in Germany. His first introduction to bamboo was in the jungles of Madagascar, in 1986, where he was working as a translator and technical assistant to Dr. Bernhard Meier doing lemur (primate) field research. Jörg was actively involved in the historical discovery of a hitherto unknown primate *Hapalemur aureus*, which became known as the Golden Bamboo Lemur.

He was curious to travel to South America; he went to Brazil, Bolivia, Peru, Venezuela, and Ecuador before, but was afraid to go to Colombia because of the war on Pablo Escobar. However, 1991, he went for a quick 4 weeks visit and it appealed to him.

He moved to Colombia in 1994.

Jörg Stamm is well known for his design and construction of engineered bamboo structures, using traditional European methods with influx of typical regional techniques, as well as his many workshops about efficient methods in bamboo construction and “hands on” training on structures like bridges, schools, houses, pavilions, and art objects. He also has expertise with bamboo laminates, applying protection by design principles for long term preservation of wooden structures.

Jörg's experience is unique. He has been sought out to consult on various technical projects, including development of industrial bamboo processing facilities, machine installations, staff trainings and product development. These have taken him to all around the world.

Some highlights of his career include working to create a list of national bamboo species and suppliers with the Design Office of Lucila Aguilar in México at the Green School in Tulum; design of productive and touristic infrastructure for indigenous people via ethno-engineering with local materials in Panamá; designing earthquake resilient lightweight structures in bamboo, again with Lucila Aguilar in Mexico; and nearly 20 years of technical consulting, evaluations and installations of bamboo processing equipment for UNIDO projects in Ghana, India, Cuba, East Timor, Aceh-Indonesia, Ambon-Indonesia, Ethiopia, Mexico, Kenya, Sri Lanka, and Vanuatu.

In addition, his technical consulting for capacity building and design of sustainable bamboo plantations, plus management planning and training in agro-industrial processing of bamboo in indigenous communities was part of an EU sponsored program in his home country of Colombia during the first part of the twenty-first century. In 2004, he started Ecobamboo, a preservation and laminate factory in Cali, Colombia, which led to some of the very first treated *Guadua* poles exported abroad to places like the USA, Mallorca, and Germany.

However, Jörg Stamm might be best known for his bridge building. Over 20 years ago, he was building bamboo bridges in Colombia. One of the first was a project involving the design and construction 3 bamboo bridges in Southern Colombia, 12 to 18m, and then one much larger, 40 m, in Pereira, a project with UTP/GIZ, followed by an enormous bridge of 52m, again in Pereira. A tremendous push came in 2007-2008, with the “Three Mountain” project: a 2000m² factory building in bamboo for the John Hardy Company in Bali, Indonesia. Mr. Hardy was impressed and invited Jorg to design and build the 22m Sibang bamboo bridge in Bali and the design office, prototype classrooms and guesthouses at the now famous Green School.

He is an accomplished writer, too:

Stamm and Vahanvati, 2018: *Bamboo Preservation Manual*, UNIDO-Vanuatu.

Stamm 2014: *Bamboo Construction Manual. African Bamboo* / GIZ - Ethiopia.

Stamm, 2010: *Woven Strand Board and Woven Strand Lumber in Guadua*. Proceedings at Symposium on Bamboo laminates, National University of Colombia.

Stamm, 2009: *Seven concepts to build a bamboo bridge*. 8th World Bamboo Congress proceedings, Bangkok, Thailand.

Stamm, 2008: *Following the natural advantage of a Giant Grass: Structures with entire bamboo culms* at Guadua Symposium, Los Andes University.

Faust, Gnecco, Mannstein, Stamm 2006: *Evidence for Post-conquest Demographic Collapse of the Americas in Historical CO₂ Levels*. Earth Interactions, Vol. 10.

Guía para la construcción de Puentes en Guadua. Booklet edited by UTP/GTZ in February 2001, Pereira.

Bambusbruecken in Kolumbien, Bruderverlag, “bauen mit holz”, October 1995
Report about the first modern bamboo bridge in Colombia.

His works have been featured in several film and video documentaries about Bamboo Bridges, broadcasted in German and Swiss and British TV channels, as well as several videos from Geoversity Design in Panama, and many videos posted on YouTube.

Master Stamm is a true mentor, with students from all parts of the globe eager to work with him again. In the past 25 years, Jörg has shared his knowledge and experience in building with bamboo through teaching workshops. He has lost count of how many but estimates he has led at least 60 theoretical and practical workshops on bamboo construction and design. The “students” have been farmers, craftsmen, academics, young enthusiasts, and his peers. And now he is here with us in Vietnam to teach some more.

In addition to his hands-on teaching, he is in constant demand for conference presentations to share his insights and expertise on such subjects as *Bamboo as Building Material in Urban Environments* at the Bio-based Building Summit, Region “Ile de France” in Paris. He was a recipient of the renown “Fibre Award” for the development in bamboo in November 2019. This award is given to practitioners working in contemporary, plant fiber-based architecture. Truly he has been interested in sustainable materials for decades; as early as 1992 he was involved in design and construction of a residential building according to the principles of eco-architecture.

We are so fortunate to have him here with us, to share and celebrate bamboo, and we are proud to honor him today with the World Bamboo Pioneer Award.



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