

PROF. DR. ÜNAL AKKEMİK

Born date	25.08.1968
Undergraduate	1991, Istanbul University, Fac.of Forestry, Dept of Forest Engineering
Graduate	1994, Science Institute, Istanbul University (Morphological and Anatomical Features of native elm (<i>Ulmus</i> L.) Taxa in Turkey)
PhD	1997, Science Institute, Istanbul University (Dendrochronological Studies on <i>Pinus nigra</i> Arn and <i>Abies cilicica</i> Carr. in the West Mediterranean Region of Turkey)
Research Assistant	1992
Assis.Prof. Dr.	1998
Assoc. Prof. Dr.	2003
Professor	2009
Language	Turkish (Mother language) English (Middle level)

Research interests

- Dendrochronology and Dendroclimatology
- Wood anatomy (Wood identification and Ecological Wood Anatomy)
- Paleobotany (Tertiary woods and flora of Turkey)
- Tree Physiology (Cambial activity and tree-ring formation)

Publications

Book

- AKKEMİK, Ü. 2004. Dendrochronology; Principles, Biological Basis, Methods, and Applications. Published by Faculty of Forestry, Istanbul University. (All text is in Turkish)

Selected Papers in Dendrochronology

- AKKEMİK, Ü. and DAGDEVİREN, N. 2004. Using Dendrochronological Methods to Date the Wooden Materials Used in Balkapanı Han, İ.Ü.Orman Fakültesi Dergisi Seri A Cilt:54 (1): 45-53
- AKKEMİK, Ü., AYTUG, B. ve GÜZEL, S. 2004. Archaeobotanical and dendroarchaeological studies in the Ilgarini Cave, Pınarbaşı-Kastamonu, Turkey. Turkish Journal of Agriculture and Forestry, Vol. 28 (1):9-17
- AKKEMİK, Ü., GÜZEL, S. 2004. Kastamonu civarındaki bazı ahşap yapıların dendrokronolojik yöntemlerle tarihlendirilmesi, Anadolu Üniversitesi Bilim ve Teknoloji Dergisi. Cilt: 5 Sayı: 1: 65-71
- YAMAN, B., AKKEMİK, Ü. 2009. The Use of Dendrochronological Method in Dating of Illegal Tree Cuttings in Turkey: A Case Study. Baltic Forestry 15 (1): 122-126. (Brief Report)

Selected Papers in Dendroclimatology

- AKKEMİK, Ü. 2000. Tree Ring Chronology of *Abies cilicica* Carr in the Western Mediterranean Region of Turkey and Its Response to Climate, *Dendrochronologia*, Vol: 18: 73-81
- AKKEMİK, Ü. 2000. Dendroclimatology of Umbrella Pine (*Pinus pinea* L.) in Istanbul (Turkey), *Tree Ring Bulletin* Volume 56:17-20
- AKKEMİK, Ü. 2003. Tree-Rings of *Cedrus libani* A Rich at the Northern Boundary of Its Natural Distribution, *IAWA Journal* 24 (1): 63-73
- TOUCHAN, R., XOPLAKI, E., FUNKHOUSER, G., LUTERBACHER, J., HUGHES, M.K., ERKAN, N., AKKEMİK, Ü., and STEPHAN, J. 2005. Dendroclimatology and large-scale circulation influences in the Eastern Mediterranean and Near East region, *Climate Dynamics* 25: 75-98
- AKKEMİK, Ü., DAĞDEVİREN, N. ve ARAS, A. 2005. A Preliminary Reconstruction (A.D. 1635-2000) of Spring Precipitation Using Oak Tree Rings in the Western Black Sea Region of Turkey. *International Journal of Biometeorology* 49 (5): 297-302
- AKKEMİK, Ü. ve ARAS, A. 2005. Reconstruction (A.D.1689-1994) of April-August Precipitation in Southern Part of Central Turkey. *International Journal of Climatology* 25 (4): 537-548
- AKKEMİK, Ü. 2007. Ağaç halkaları diyor ki: Bugüne benzer kuraklığı geçmişte çok yaşadık! *Cumhuriyet Bilim Teknik Dergisi* Sayı: 1066: 10-11, 24 Ağustos 2007
- TOUCHAN, R., AKKEMİK, Ü., HUGHES, M., ERKAN, N. 2007. May-June precipitation reconstruction of southwestern Anatolia, Turkey for the last 900 years from tree rings. *Quaternary Research*. 68: 196-202
- SEVGİ, O., AKKEMİK, Ü. 2007. A Dendroecological study on *Pinus nigra* Arn. on the different altitudes of northern slopes of Kazdağları, Turkey, *Indian Journal of Environmental Biology*. 28(1): 73-75
- AKKEMİK, Ü., D'ARRIGO, R., CHERUBINI, P., KÖSE, N., JACOBY, G. 2008. Tree-ring reconstructions of precipitation and streamflow for northwestern Turkey. *International Journal of Climatology*. 28: 173-183

Selected Papers in Wood Anatomy

- AKKEMİK, Ü., EFE, A., KAYA, Z., DEMİR, D. 2007. Wood anatomy of endemic *Rhamnus* species in the Mediterranean region of Turkey. *IAWA Journal* 28 (3): 301-310
- AKKEMİK, Ü. 2008. Identification of timbers from Yenikapı 12 shipwreck, (Part VII: 201-212). *Yenikapı Shipwrecks Vol. 1 The Old Ships' of the "New Gate"* (Ed. Ufuk Kocabaş)

Selected Papers in Paeobotany

- AKKEMİK, Ü., KÖSE, N., POOLE, I. 2005. *Sequoioideae* (Cupressaceae) woods from the upper Oligocene of European Turkey (Thrace), *Phytologia Balcanica*. 11 (2): 119-131

- AKKEMİK, Ü., TÜRKÖĞLU, N., POOLE, I., ÇİÇEK, İ., KÖSE, N., GÜRGEN, G. 2009. Woods of Miocene Petrified Forest near Ankara, Turkey. Turk J.Agric For. 33 (1): 89-97

Selected Papers in Plant Morphology

- KAYA, Z., BAŞARAN, S., AKKEMİK, Ü. 2000. Palynological research on some endemic species of *Centaurea* L. in Turkey, Scientific Annals of The School of Biology, BIOS(Macedonia-Greece) 5:27-34
- EFE, A., AKKEMİK, Ü., KAYA, Z. 2005. Morphological and Palynological features of the endemic *Rhamnus* species in the Mediterranean Region of Turkey. Review of the Faculty of Forestry, University of Istanbul: 55 (A-2): 7-30
- EFE, A., AKKEMİK, Ü., KAYA, Z. 2006. Morphological and Palynological features of the woody endemic Rosaceae taxa in the Mediterranean Region of Turkey. Review of the Faculty of Forestry, University of Istanbul: 56 (A-1): 9-35
- ARAS, A., AKKEMİK, Ü., KAYA, Z. 2007. *Hippophae rhamnoides* L.: Fruit and seed morphology and its taxonomic problems in Turkey. Pak. J. Bot. 39 (6): 1907-1916
- ÇINAR-YILMAZ, H., AKKEMİK, Ü. 2007. Embryo anatomy in *Quercus alnifolia* Poeh. Seed Science and Technology 35 (2): 493-495, Research Note

Paper in Cambial Activity

- AKKEMİK, Ü., ÇINAR-YILMAZ, H., SEVGİ, O. 2006. Cambial activity of *Quercus petraea* (Mattuschka) Liebl. in Belgrade Forest (İstanbul). Turkish Journal of Agriculture and Forestry 30:429-438

Paper in Systematic Botany

- AKKEMİK, Ü., AKALIN, E., ÖZHATAY, N. 2007. *Ranunculus anatolicus* sp. nov. (Ranunculaceae) from northeast Turkey. Nordic Journal of Botany. 25: 311-314

Memberships

- Tree-Ring Society (USA)
- International Association of Wood Anatomists (IAWA)
- Chamber of Forest Engineers
- Turkish Association of Foresters

Awards

- TÜBİTAK-NATO B2 Fellowship (4 months University of Arizona, Lab of Tree-Ring Research, 2005)
- The Research Fund of the University of Istanbul, Successful Researcher, 2005, 2008 (several times)