**YOUNIS SULEMAN (PhD)** **Tel: 604-945-3459**

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**CANADA**

**Objective:** To obtain a position as a **University Professor/Researcher**

**QUALIFICATION HIGHLIGHTS**

* Taught university students (graduates and undergraduates) chemistry and biology courses.
* Supervised student's graduation projects of undergraduates.
* Supervised Master degree student on modified wood adhesives.
* Supervised A PhD degree on suitability of Iraqi wood resources for improving of Iraqi currency paper.
* Researched many topics in the field of lignocellulosic materials chemistry and utilization, pulping, wood adhesives modification, and wood wastes utilization.
* Served as a member in many committees in College, University, and Ministry as discussion of master degrees committees to scientific and research committees.
* Published many papers in different journals and presented many papers at many conferences and scientific meetings.

**EDUCATION**

**Bachelor degree**: Education, Simon Fraser University, Burnaby, BC, Canada 2011

**Professional Development Program (PDP) Certificate**, Simon Fraser University Burnaby, BC, Canada 2011

**Diploma**: Special Education Assistant, Stenberg College, Surrey, BC, Canada 2006

**Ph.D. Degree: Wood Chemistry,** University of Wisconsin-Madison, 1987

Madison, WI, USA.

**Master degree:** Wood Science, Mosul University, Mosul, Iraq 1979

**Bachelor Degree:** Forestry, Mosul University, Mosul, Iraq 1976

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**RELATED EXPERIENCES**

**Secondary School Teaching Experience**

* Taught Science 9, 10, and Biology 11. I facilitated the classroom and enriched the instructional materials to involve students in their learning process.
* Participated in student's and staff's activities outside classrooms.
* Worked with grades 9, 10, and 11 special needs students and helped them developed academically, physically, and in behavioral control.
* Assisted in teaching Science 9 and 10 and I tutored Math 10 (essential) and Science 10

**University Experience**

* Taught undergraduate and graduate students wood science and technology, wood and cellulose chemistry, biochemistry, adhesive science and technology and other related biology and chemistry courses.
* Participated in various committees, to plan and evaluate research projects of the faculty, graduate students, and organized scientific meetings and seminars.

**Research Relevant Experience**

* Optimized reaction variables of Thermo-chemical fractionation and liquefaction of lignocellulosic materials includinglignin, cellulose and wood.
* Evaluated the reaction variables using of the following techniques:
1. GPC for molecular weight distribution.
2. IR spectroscopy for cellulose crystallinity index.
3. HPLC, GC, GC/MS spectroscopy for compounds identification.
4. Mechanical and Physical testing of wood composites boards and pulp and paper.
* Developed work programs and conducted research on:

 1. Organosolv pulping of oil palm residues fibres.

 2. Optimization of medium density fiberboards (MDF) and particleboards

 production using modified sodium silicate adhesive.

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**EMPLOYMENT BACKGROUND**

**Professor**

University of Tikrit, Tikrit, Iraq 2012 -

**Tutor**

Teaching many courses of Math, Chemistry, Biology, and Science,

BC, Canada2010**-**2012

**Special Education Assistant**

Mediated LearningAcademy Coquitlam, BC 2007 -2010

**Educator**

Volunteering at community schools Vancouver, BC 2002- 2007

**Assistant Professor**

OmarElmukhtar UniversityElbeida, Libya1998- 2002

**Research Officer**

Forest Research Institute of Malaysia Kuala Lumpur, Malaysia 1995-1998

**Assistant Professor**

Mosul University Mosul, Iraq 1987-1995

**Lecturer Assistant** Mosul University, Mosul, Iraq 5/1979-10/1981

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**TEACHING EXPERIENCE**

** Teaching Undergraduate Students Courses:**

**University of Tikrit: Tikrit, Iraq (2012 - )**

* + - Organic Chemistry
		- Principles of Biochemistry
		- English Language for Agriculture Students

**Omar Elmukhtar University: Elbeida, Libya (1998-2001)**

 Wood Science and Technology

 Forest Products

 Plant Taxonomy

 Terminology for Agriculture Students (English)

**Mosul University: Mosul, Iraq (1979-1995)**

 Plant Physiology

 Plant Anatomy

 Wood Science

**Teaching gaduate Students Courses:**

**Mosul University: Mosul, Iraq (1987-1995)**

 Wood Chemistry

 Cellulose Chemistry

 Science and Technology of Adhesives

 Plant Biochemistry

 Chemotaxonomy

 Research Methods

 Advanced Plant Physiology

**University of Tikrit: Tikrit, Iraq (2012 - )**

* Advanced Biochemistry

**YOUNIS H. SULEMAN (Ph.D.)**

#### ABSTRACTS AND PRESENTATIONS

Suleman, Y.H. 1998. Study the suitability of some native species for pulping. Biological

 Diversity Meeting, Omar Elmukhtar university. April 27, Elbeida, Libya.

Suleman, Y.H. 1997. The suitability of soluble sodium silicate as a binder for medium

 density fibreboards. 1997 Annual Meeting -TIG Session of Forest Products

 Society . June 22-26, Vancouver, British Columbia, Canada.

Suleman, Y.H. and Mohd, Nor Mohd. Yusoff. 1997. Ethanol pulping of oil palm

 fibers. 4th. National Seminar on Utilization of Oil Palm Tree. PORIM.

April 29-1 May, Kuala Lumpur, Malaysia.

Suleman, Y.H. 1997. Chemically modified soluble sodium silicate as adhesive for

 Particleboards. 31st. International Particleboard/Composites Material

 Symposium. Washington State University. April 8-10 Pullman, USA

Suleman, Y.H. and R.A. Young. 1997. Themochemical fractionation and liquefaction

 Of lignin in rocking furnace reactor. Regional Consultation on Modern

 Industrial Biomass Energy Technology. January 6-10, Kuala Lumpur, Malaysia.

Suleman, Y.H. and R.A. Young. 1997. Thermochemical fractionation and liquefaction of

 wood in a fluidized bed reactor. Regional Consultation on Modern Industrial

 Biomass Energy Technologies . January 6-10, Kuala Lumpur, Malaysia.

Suleman, Y.H. and R.A. Young. 1997. Thermochemical fractionation and liquefaction of

cellulose in a fluidized bed reactor . Regional Consultation on Modern

Industrial Biomass Energy Technologies. January 6-10, Kuala Lumpur, Malaysia.

Suleman, Y.H. 1993. Silvicultural practices and photosynthesis relations. National

Seminar of Forest Future in Iraq. October 26-27, MosulUniversity, Mosul,

Iraq.

Suleman, Y.H. 1988. Pulping wastes (lignin) as an adhesive for wood industry. National

Seminar of Utilization of Industrial Wastes. November 7-11,

Scientific Research Foundation of Iraq, Baghdad, Iraq.

Suleman, Y.H. 1987. Variation in vessel element size and tissue proportion in three Iraqi

 oaks. December 7-11 .IUFRO, Paris, France.

Young, R.A. and Y.H. Suleman. 1985. Thermochemical fractionation and liquefaction

 Of lignocellulosic materials. ACS annual meeting. September 9-13, ACS,

Chicago, USA.

Young, R.A. and Y.H. Suleman. 1983. Integrated approach to biomass utilization: A

cellulose-particleboard synfuels model. May 21-24, International

symposium on wood and pulping chemistry proceedings. Koyoto, Japan.

Suleman, Y.H., D.M. AL-Dawoody, and L.H. Al-Najjar. 1979. Study of the

 suitability of oak for pulping. National seminar of Agricultural Researches.

 November 10-14. Scientific Research Foundation of Iraq, Baghdad, Iraq.

# PUBLICATIONS

1. Alaa Salah Ali, Ehsan Fadhel Saleh, and Y.H. Suleman. 2016. Effect of Organic Fertilizers Extracts Addition and Foliar Spray of urea on the Vegetative Growth Characteristics and Mineral Content of Apricot Saplings cv. Labeb. Journal of Tikrit University for Agricultural Sciences. 16(4):
2. Suleman, Y.H. 2015. Softening and shaping of black poplar wood with chemicals. Journal of Tikrit University for Agricultural Sciences. 15(4):15-20.
3. Suleman, Y.H. 2015. Black poplar (*Populus nigra* L.) wood density variation

with tree planting spacing. Journal of Tikrit University for Agricultural Sciences.

15(3):14-18.

1. Suleman, Y.H. 2013. Black poplar (*Populus nigra* L.) wood wastes as a resource for furfural and tannins production. Journal of Tikrit University for Agricultural Sciences. 15(1): 1-7
2. Suleman,Y.H. and S.H. Rashid. 1999. Chemical treatment to improve wood

finishing. *Wood and Fiber Science.* **31**(3): 300-305.

1. Suleman, Y.H. 1998. Determination of Thorny juniper (*Juniperus microcarpa)* fiber length to Study the suitability of wood for future industrial purposes. First Sirte Natural Resources Meeting proceedings/agricultural section: 80-84, Sirte, Libya.
2. Suleman, Y.H. and E.M-S. Hamid.1998. Hamsah adhesive: New method for

 production of an adhesive for wood composites industry by chemical modification

 of Sodium silicate. **. *Iraqi Patent* (International classification**

 **# C09 J3/QO and Iraq Classification # 3).**

1. Suleman, Y.H. and Mohd.Nor Mohd.Yusoff. 1997. Acid catalyzed organosolv

 pulping of oil palm fibres. *Mokuaz iGakkaishi* Journal. **43**(12):1016-1021.

1. Suleman, Y.H. and E. M-S. Hamid. 1997. Soluble sodium silicate as an adhesive

 for solid wood panels. *Mokuazi Gakkaishi* Journal. **43**(10):855-860.

1. Suleman, Y.H. 1992. Delignification of black poplar in aqueous ethanol.

 *Mesopotamia Journal of Agriculture*. **24**(1):17-21.

1. Suleman, Y.H. 1991. Variation in vessel element size and tissue proportion in three Iraqi oaks. J. King Saud University. Agricultural Sciences. 3(1):59-66.
2. Suleman, Y.H. and K.S. Jassim. 1991. Utilization of lignocellulosic materials for

 natural water alkalinity treatment. *Yemen Journal for Agriculture Science*

*and Research* **1**(1):83-90.

1. Suleman, Y.H. and K.S. Jassim. 1990. Utilization of weathered wood for

 natural water alkalinity treatment. *Iraqi Patent***2303/90**.

1. Suleman, Y.H. 1989. Organosolv pulping of wood: Part I. Pulping of aspen.

*Assiut Journal of Agricultural Sciences*. **20**(5):329-339.

1. Suleman, Y.H. and R.A. Young. 1988. Acetic acid liquefaction of lignocellulosic

 materials*. Cellulose Chemistry and Technology*. **22**:321-333.

1. Suleman, Y.H. and R.A. Young. 1988. Characterization of cellulose degradation

 under liquefaction conditions*. Cellulose Chemistry and Technology***. 22**:3-16.

1. Al-Najjar, L.H. and Y.H. Suleman. 1984. Study of some properties determining

 the suitability of the wood of native oak trees in Iraq for pulping purposes*.*

 *Iraqi Journal of Agricultural Sciences*. **2**(2): 91-99.

1. Young, R.A. and Y.H. Suleman. 1983. Integrated approaches to biomass

utilization: A cellulose-particleboard synfuels model. *International symposium*

*on wood and pulping chemistry proceedings. Japan*. Pages:79-84.

1. Al-Dawoody, D.M., S.A. Tewfik, and Y.H. Suleman. 1980. Chemical analysis

of the bark of some hardwood species growing in the northern Iraq. *Zanco*. **6**(2):1-16.

1. Suleman, Y.H., D.M. Al-Dawoody, S.A. Tewfik, and L.H. Al-Najjar. 1980.

 Comparative anatomy and identification of native oak wood (*Quercus spp*.)

 growing in northern Iraq. *Zanco*. **6**(1):81-96.

1. Al-Dawoody, D.M., S.A. Tewfik, and Y.H. Suleman. 1980. Study of wood

 anatomy of the poplar trees (*Populus spp*.) growing in Iraq.

*Zanco*. **6**(1):1-22.