

* Nurturing Future Innovators: The Intersection of Research, Enterprise, and Community Impact

"How nurturing innovation and applying research can lead to entrepreneurship that benefits both individuals and communities."

Chuka University Conference | Presented by Prof.
Singer, Deputy Director, Tharaka Invention Circle,
Mechanical/Solar Engineer

October 23-24, 2024



* Director of Tharaka
Invention Academy



* Our time to shine has come



* Introduction

*Welcome to this important conference. Today, we'll explore how research, enterprise, and community impact work together to nurture future innovators.

***Introduction**



* Future Innovators



*** The Role of Research:
Exploring New Frontiers**



* The ubiquitous smartphone permits almost all of us to access an increasingly powerful research tool.

REDUCED BARRIERS TO ENTERPRISE

- Access to Technology & Internet
- Microfinance & Alternative Funding
- Lower Business Costs
- Global Knowledge Access
- Mobile Payment Systems
- Shift in Social Norms
- Improved Logistics
- Government Support



* Reduced barriers to Enterprise



* This FREE book for innovators addresses the elephant in the room: Artificial Intelligence. Request your free copy at tharaka.inventionschool.tech/97_AI_Tools



* Research in Action: Practical Applications



*** Every failure is a new opportunity. Ask Thomas Edison...**



* Enterprise: Turning Ideas
into Solutions



* **Case Study: Manual Washing Machine**
(Video)

TIA 3500 Solar Dehydrator

Tharaka Invention Circle

SOLAR

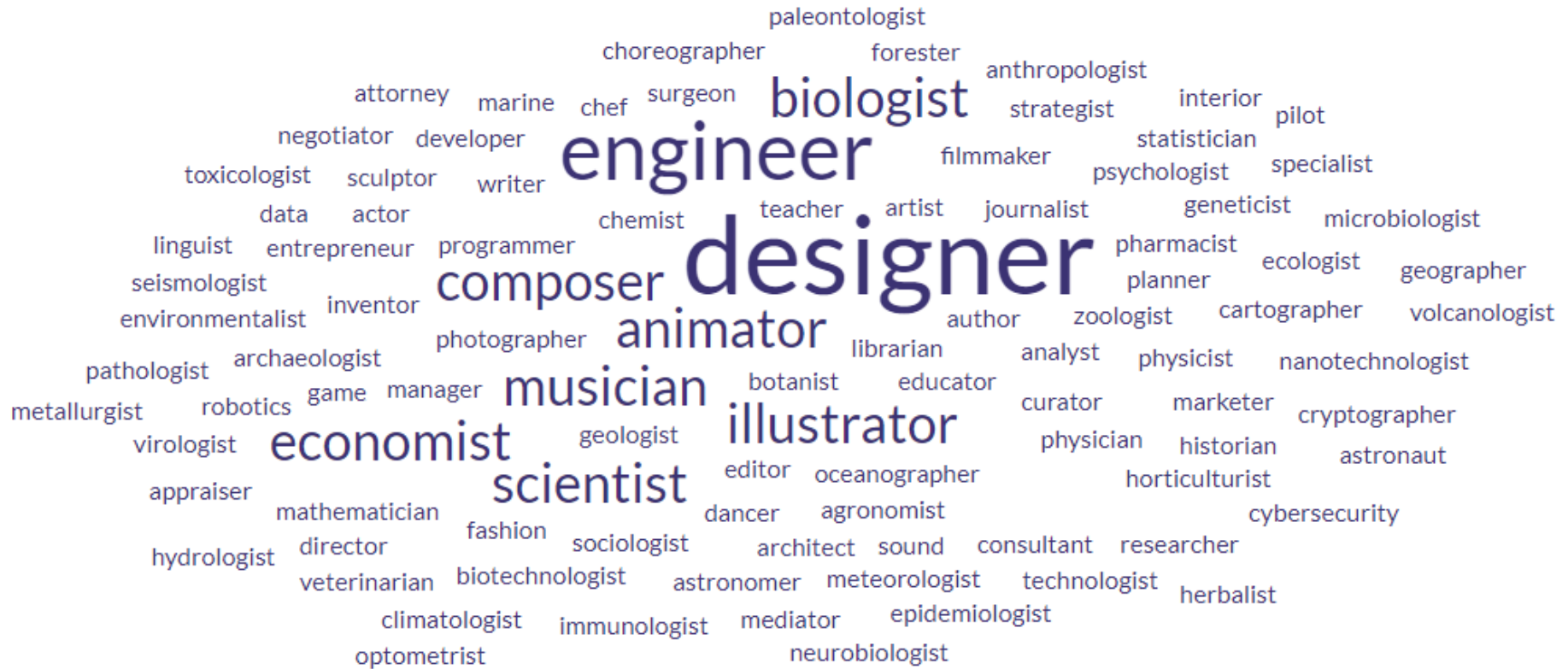
SOLAR DEHYDRATOR

- High Value Addition
- Full Nutritional Value
- Long Term Preservation
- Renewable Energy Only
- Enhanced Food Security
- Low Carbon Footprint
- Cheaper Transportation/Storage
- Reduced Crop Wastage

* **Case Study: TIA 3500 Solar Dryer**
(Video)

* Innovation happens when ideas move from research to enterprise, creating solutions that generate both economic and social value.

* Virtually every human endeavor can be touched by innovation.



*** ANYBODY CAN BECOME POWERFUL INNOVATORS,
INVENTORS, AND PROBLEM SOLVERS IN AFRICA.**



* Building Sustainable Businesses



* At Tharaka Invention Academy, we encourage students to think beyond prototypes and develop scalable business solutions.



* Community Impact: The Heart of Innovation



* Local Innovation for
Global Impact



- * Students use drones equipped with sensors to monitor soil health and use AI models to predict crop yields. The system automatically adjusts water, and nutrients based on real-time data.



* Collaboration and Scaling Innovations

* Partnerships with local and global organizations ensure that innovations are scalable, sustainable, and impactful. African students and community members are engaging with a futuristic holographic projection of their village, featuring radical technologies like autonomous transport and vertical farming.

*** Moving away from colonial education models is liberating, unleashing the creativity and true potential of our youth.**



* **Conclusion: A Call to Action**

*"We must rethink research, foster an entrepreneurial spirit, and ensure our innovations serve the greater good."

Prof. Singer, Mechanical/Solar Engineer



* Questions and Discussion