

**TITLE**

Enhancing Survey Training in the  
Third Millennium

**BY**

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- Presentation Outlines
- Abstract
- Introduction
- Definition of the word “Surveying”
- Disciplines of Surveying
- Establishment of Surveying Faculties  
- An Advocacy
- Problems in non-creation of Survey Faculty
- Academic Curricula Recommendation
- Conclusion
- References

## **KEY WORDS**

- Survey
- Education
- Training

## **ABBREVIATIONS**

- **FSL- Faculty of Surveying –Land Surveying Department**
- **FSH – Faculty of Surveying-Department of Hydromorphology**
  - **FSA – Faculty of Surveying-Department of Aerial Surveying**
  - **FSE – Faculty of Surveying-Department of Estate Surveying**
  - **FSB – Faculty of Surveying-Department of Building Surveying**
  - **FSP – Faculty of Surveying –Department of Planning Surveying**
  - **FSQ – Faculty of Surveying-Department of Quantity Surveying**

### **ABSTRACT**

Over the years, traditional surveying has been taught in Institutions of higher learning encompassing the following major disciplines of Sea Surveying or Hydrography; Aerial Surveying or Photogrammetry, Remote Sensing, Land Surveying and lately Geographic Information System (GIS), in one Department of Surveying under the Faculty of Engineering or Environmental Sciences. This tendency has been found defective since it leads to the following:

- Great burden on students
- Underdevelopment of the curricula in the various disciplines of Surveying
- Inadequate funding of Surveying Departments
- To enhance survey training worldwide this paper advocates the establishment of “Faculties of Surveying” with the following as departments namely:
  - Land Surveying (Geodesy)
  - Aerial Surveying (Photogrammetry)

- Water Surveying (Hydrography)
- Estate Surveying (Estate Management)
- Quantity Surveying
- Building Surveying or Design Surveying (Architecture)
- Planning Surveying (Urban and Regional Planning)
- To further buttress this advocacy, an academic curricula for the various Departments of Surveying is presented.

## **INTRODUCTION**

History of Survey Training in Nigeria from 1908  
–Date traced with the following:

- ✓ Departments of Land Surveying, Departments of Surveying, Geodesy and Photogrammetry, Departments of Surveying and Geoinformatics.
- ✓ Today seven (7) universities and seventeen (17) Polytechnics, could be more....

### **ASPECTS OF SURVEYING**

➤ Definition of the word “Surveying”.

Wilson J. P Ramsey(1977) defines Surveying as “the process of taking a general view of Land, Estate, Water, Building, Mines etc. by making observations and measurements aimed at determining the size, shape, position, location, value, quantity, condition and ending with the presentation of the field data in an acceptable form namely: maps, plans, charts, written reports, bills of quantities, etc.”

➤ From the definition above five aspects or disciplines are identified thus:

- I. Land Surveying, Aerial Surveying, Sea Surveying
- II. Estate Surveying
- III. Quantity Surveying
- IV. Building Surveying (Architecture)
- V. Planning Surveying (Urban & Regional Planning)

NB: Land, Sea, and Aerial Surveying are as distinct from each other as Accountancy and Banking & Finance; Mathematics and Statistics. Hence should be accorded Departmental Status.

### **ESTABLISHMENT OF FACULTIES OF SURVEYING**

The paper advocates:

- A) The decentralization of the present Departments of Surveying into:
  1. Departments of Geodesy or Land Surveying
  2. Department of Hydrography or Sea Surveying
  3. Department of Photogrammetry/Remote Sensing or Aerial Surveying.
  4. Department of Management Surveying or Geoinformatics.

### **Reasons:**

- Great burden on Surveying Students
- Under Development of the various Disciplines and lack of Specialization
- Inadequate funding of the departments of Surveying as presently constituted.

➤ B) Establishment of Faculty of Surveying to house the various disciplines of Surveying:

- Land Surveying
- Sea surveying
- Aerial Surveying
- Estate Surveying
- Quantity Surveying
- Building Surveying
- Planning Surveying

### **ACADEMIC CURRICULA**

This paper examined and reviewed the existing curricula of the departments of Surveying and has proposed an academic curricula for the various proposed Departments of Surveying in the proposed Faculty of Surveying- see table 5.1

### **CONCLUSION**

There is no doubt that the surveying profession has not taken its proper place in the University system. To be able to meet the academic and professional needs of the Surveying profession, Surveying should be accorded a Faculty status in the Universities. As a follow up, the paper has examined and reviewed the existing surveying curricula and recommended a proposed course structure for various departments of the Surveying Faculty.

The International Federation of Surveyors(FIG), Nigerian Institution of Surveyors, Commonwealth

Association of Surveyors and Land Economy(CASLE), Royal Institute of Chartered Surveyors(RICS) and other well-meaning associations and

individuals are encouraged to foster this fight for the establishment of Surveying Faculties in Universities worldwide in this millennium.

This would not only attract better funding for the surveying departments, but will also bring all Surveying professions under one umbrella and give full meaning to the realization of the establishment of organizations like FIG, CASLE, RICS and improve on the gross lack of manpower and equipment in the various fields of surveying and enhance the training of surveying in the third millennium.

**THANK YOU AND GOD BLESS**