

## CURRICULUM VITAE OF MR MARY TEUW NIANE

### PERSONAL INFORMATION

**FIRST NAMES:** Mary Teuw

**Name:** NIANE Sex: Masculine

**Nationality:** sénégalaise

**ADDRESS:** Université Gaston Berger de Saint-Louis, BP234 Saint-Louis, Sénégal.

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**CURRENT POSITION Rank:** Full professor of exceptional class

Knight in the National Order of the Lion of Senegal

### SOME RESPONSIBILITIES :

- Founder member and Member of the Office of the Science and Technology Academy of Senegal.
- President of the Permanent Committee of the African Conference of Research in Mathematics Applied (CARMA).
- Member of the Committee of Program and Person in charge for the West Africa Area Zone2 (French-speaking and Portuguese-speaking) of African Mathematics Millennium Science Initiative (AMMSI) (2004-2006)
- Director of the Numerical Analysis and Computer Science Laboratory (LANI)
- Member of the Management Committee of the Network Partial Differential Equations, Modelling and Control
- Member of the Regional Commission of Experts of the Francophone University Agency (AUF) for West Africa (2003-).
- Member of the Scientific Council of the International Centre of Mathematics Pure and Applied (CIMPA), Nice, France
- Senior Associate Member of ICTP-Trieste-Italy (2000-2005)
- Director of UFR of Sciences Applied and Technology (UFR SAT) (1997-2003)
- Vice President of the Parliament of the University Gaston Berger of Saint-Louis (1999-2003)

**SPECIALITY:** PARTIAL DIFFERENTIAL EQUATIONS, MODELING AND CONTROL OF DISTRIBUTED SYSTEMS

**Ph D : 1990**

**Subject:** REGULARITY AND EXACT CONTROLABILITY OF THE EQUATION OF THE VIBRATING PLATES IN A POLYGONAL DOMAIN. Defended at the University of Nice-Sophia - Antipolis.

**Doctorat d'Etat es Sciences Mathématiques : 1990**

**Subject:** REGULARITY, EXACT CONTROLABILITY AND SPECTRAL CONTROLABILITY OF THE WAVE EQUATION AND THE PLATE EQUATION. Defended at the University Cheikh Anta Diop of Dakar, Sénégal.

**TRAINING OF Ph. D students :** More than thirty memories of DEA. Ten theses of Doctorate.

**INSTITUTIONAL AND PEDAGOGICAL REFORMS :** Installation of new courses in social and financial mathematical sciences, in applied mathematics and computer science.

I chaired the Commission university Chart of Senegal charged to lay down the orientations, to design texts organizing the universities of third generation of Senegal.

### **RESEARCH :**

A forty communications, conferences, seminars; about fifteen mathematical articles; more than ten articles of mathematics and science popularisations .

A research on the functional analysis, regularity of EDP in irregular fields; control, modelling.

### **CO-OPERATION:**

Thanks to my co-operation projects, Saint-Louis has become for ten years maintaining one of the hinged plates of exchanges in mathematics: regional schools (CIMPA for example), , international workshops on several themes (modelling, EDP, control, computer science, artificial intelligence, etc.) ; West African Training School (WATS) (8 weeks each year); collaboration with the universities of North and the South in the training of PhD (Grenoble, Paris-Dauphine, Metz, Montpellier, Laval, Neuchâtel, Louvain La Neuve, GeorgiaTech in Atlanta, Ouagadougou, Abidjan, Nouakchott, Accra, etc). Through AMMSI and AUF, I take part in requests evaluation for scholarships, in attribution of funds researchers mobility , for the scientific visits and granting of subsidies for conferences, schools, workshops and exchanges projects between universities.

### **Some communications and courses :**

Laboratory Alexandre Dieudonné, University Nice Sophia Antipolis, France. Elimination of the singularities in polygonal fields by local actions intern or borders. September 30, 2005.  
ICTP School one Nonlinear analysis from 9 to 27 October 2006. Lecturer invites, course to be given: not linear optimization.

### **Some publications of science popularisation :**

And if the figures spoke in national languages. Sun, WalFadjri, LeQuotidien April 2004.  
And God saved Saint-Louis, Daily South, April 28, 2005; The Point, May 09, 2005.

### **Some recent scientific publications:**

Exact controllability of the wave equation in fractional order spaces.

Co-auteurs Kalifa Bodian et Abdoulaye Sène.

C. R. Math. Rep. Acad. Sci. Can. 27, no. 1, pp 2-7, 2005

Is it possible to cancel singularities in a domains with corners?

Co-auteurs: Abdoulaye Sène, Abdou Sène, Gilbert Bayili, Mamadou Sy. To appear, CRAS Paris, France, 2006.