

# Vigyan Vidushi 2022



## Some mathematical problems in fluid mechanics



### Prof. Colette Guillopé

Prof. Colette Guillopé currently is an emerita professor at the Université Paris XII (now named Université Paris-Est Créteil). Her speciality is in partial differential equations problems arising in Fluid Mechanics.

She has been successively president of the French associations *femmes et mathématiques* (Women and Mathematics) and Femmes & Sciences (Women and Science). She has been in charge of parity in her university. She also contributed to the creation of the association CPED (Standing Conference of Officers for Equality and Diversity in Higher Education and Research Institutions), which today has as members more than 80 institutions of higher education in France.

Other than partial differential equations problems for Fluid Mechanics, her expertise is geared toward the promotion of girls and women in fields where they are very few and also deals with gender-based violence in higher education and research, i.e. one of the reasons women may drop out of these fields.

She is also the vice president of European Platform of Women Scientists (EPWS).

**28 July 2022 at 4.00pm (AG-66)**

I will give an overview of some problems I have been dealing in my research and will show some mathematical methods that I have used to solve these questions. I will also discuss some open problems.

I shall talk about myself as a mathematician, my career, my professional life, my family life etc.

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