



Meet

Prof. Ivana Kovacic

Co-Editor, The Duffing Equation: Nonlinear Oscillators and their Behaviour

Ivana Kovacic's research involves the use of quantitative and qualitative methods to study differential equations arising from nonlinear dynamics problems mainly in mechanical engineering, but recently also in biomechanics. Besides this, among special interests are the application of special functions for quantitative studies of nonlinear oscillators, non-holonomic mechanics, conservation laws and adiabatic invariants.

Recent projects have addressed purely non-integer-order nonlinear oscillators, asymmetric forced Duffing equations, elliptic Mathieu equations, Mathieu-Duffing equations, nonlinear equations of motion with slowly varying parameters, purely nonlinear bistable oscillators and dynamics of coupled oscillators.

We asked Ivana

How or why did you choose Engineering as a career path / area of study?

I was good at math & physics and was always interested in how things work... So, it came naturally to study Mechanics at the Faculty of Engineering Sciences.

What inspires you about Engineering?

Although some systems are far away from being alike, they use the same working principle. Different forms, but the same basics! I find this amazing!

What challenges do women face in the Engineering professions / academia?

To prove that they can be as good as their male colleagues.

What is the ratio of female to male in your workplace / faculty?

Males dominate, of course. There are just few of us females, but each and [every] single one is a true expert

What is the most exciting thing about your job?

Every single day is different: new people, new activities, new knowledge - widening horizons in all respects!

What does a typical day in your job involve?

Teaching, work with students, research, meetings, attending conferences...

What would you say to girls in school / college who may be considering Engineering as a career choice / study option?

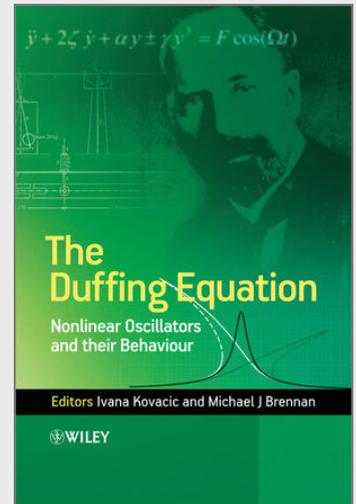
If you feel like it, go for it! You will not regret it!

Do you think the perception of Engineering as a male-dominated career can be changed, and if so, how?

By campaigns like this - showing 'real examples' - successful and happy women in engineering!

Read more inspirational stories

<http://news.wiley.com/engineeringwomen>



#inspirationalengineers