

Second CI<sup>2</sup>MA Workshop  
“Mathematical Models in Epidemiology”  
Supported by MINEDUC project UCO 1202 (REDOC.CTA) and Conicyt  
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July 6 and 7, 2016  
Auditorio Alamiro Robledo  
Facultad de Ciencias Físicas y Matemáticas, Universidad de Concepción

Organizers: Raimund Bürger (UdeC) and Luis Miguel Villada (UBB)

Preliminary programme (as of June 29, 2016)

Wednesday, July 6, 2016

- 15.45** **Mauricio Castro** (CI<sup>2</sup>MA & Departamento de Estadística, Facultad de Ciencias Físicas y Matemáticas, UdeC):  
Censored mixed-effects models for irregularly observed repeated measures with applications to HIV viral loads
- 16.30** **COFFEE BREAK**
- 17.00** **Fernando Córdova-Lepe** (Facultad de Ciencias Básicas, Universidad Católica del Maule, Talca):  
Vacunación por pulsos. Frecuencia dependiente de la incidencia.
- 17.45** **Gerardo Chowell-Puente** (School of Public Health, Georgia State University, Atlanta, GA, USA):  
Characterizing epidemic growth dynamics to improve epidemic forecasting
- 20.30** **Seminar Dinner**

Thursday, July 7, 2016

- 09.30** **Luis Miguel Villada** (CI<sup>2</sup>MA, UdeC, & Departamento de Matemática, Facultad de Ciencias, Universidad del Bío-Bío, Concepción):  
Modelling the spatial-temporal progression of the 2009 A/H1N1 influenza pandemic in Chile
- 10.15** **Mauricio Sepúlveda** (CI<sup>2</sup>MA, & Departamento de Ingeniería Matemática, Facultad de Ciencias Físicas y Matemáticas, UdeC):  
Finite volume method for a model of indirectly transmitted diseases with nonlocal cross-diffusion
- 11.00** **Coffee break**
- 11.15** **Elvis Gavilán** (CI<sup>2</sup>MA, UdeC, & Departamento de Ingeniería Matemática, Facultad de Ciencias Físicas y Matemáticas, UdeC):  
A computational approach to a spatio-temporal and gender-structured model for hantavirus infection in rodents
- 12.00** **Concluding discussion and closing of the workshop**

Seminar participants who would like to join dinner should register with CI<sup>2</sup>MA secretary: