

Statistical Issues that Arise in Modeling and Regulating Air Pollution Fields

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| Date | Wednesday , 23 January 2008 |
| Venue | Seminar Room, Block S16-06-118 Department of Statistics and Applied Probability Faculty of Science National University of Singapore |
| Time | 4:00 – 5:00 pm |
| About the Speaker | <p>James V Zidek, Professor Emeritus and Founding Head of Statistics at the University of British Columbia, obtained his PhD at Stanford University. His research interests include statistical decision analysis and environmental statistics, having done pioneering work, both theoretical and applied, in the latter. He was President of the Statistical Society of Canada (1987-88) and has served on numerous scholarly committees which include the Scientific Advisory Committee, US National Center for Atmospheric Research, Boulder, Colorado (2005 -) and the Clean Air Scientific Advisory Committee for Ozone, US Environmental Protection Agency (2005-07). He has also served as Associate Editor of the <i>Annals of Statistics</i>, <i>Journal of the American Statistical Association</i> and <i>Environmetrics</i>. His many honors include the Gold Medal of the Statistical Society of Canada and Fellowship in the Royal Society of Canada.</p> |
| Abstract | <p>The earth's atmosphere is a complex stochastic system which includes amongst other things pollution fields, a part of each deriving from anthropogenic sources and activities. Because of their negative health impacts, these fields are now subject to regulation.</p> <p>However setting the air quality standards needed to regulate them is itself a complex business and that leads to a need for good models for these fields. This talk, drawing on the speaker's recent experience and research connected with ozone, will describe physical, computational and statistical approaches to modeling pollution fields and how these might be combined. Finally he will describe some of the ways in which the results of these models play into the process of developing standards. Although focussing on random pollution fields, the modeling issues have become quite pervasive in current research in statistical science.</p> |

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