

## REVIEW OF THE THESIS OF ING MAREK GAYER

It was an honour for me and an intellectual pleasure to review the above Thesis.

- Having dealt myself a lot with incineration practices for environmental purposes for example for the combustion of solid wastes, I strongly believe that the subject of the Thesis is very much relevant to the needs of the scientific community. Especially the visualization part of it it was not so much developed until Ing Marek started with his work on the matter.
- The main objective of the Thesis is well given and also reading the Thesis explicitly it is given the answer that the objective has been fulfilled
- Ing Marek examined and reviewed the current practice of methodology and he has chosen to my opinion the best way to go farther
- A very attractive, speedy alternative to the common Computer Fluid Dynamics methods to obtain for both the simulation and the visualization of the combustion process. As a such the developed by Ing. Marek alternative has very interesting impact not only for the industry (interactive possibility with the real thing) but also for the Academy (education).
- To my opinion as an Environmentalist the last sentences of the Thesis are revealing of the further practical and research potentialities. \*Help to keep the Environment clean\* But I would add that the importance of the Thesis lies not only with the combustion of traditional fuels but also in a further development of renewable fuels such as biomass.
  - In conclusion the Thesis satisfies the criteria of creative novel scientific work.

The author of the Thesis proved to have an ability to perform research and to achieve scientific results. I do recommend the Thesis for presentation with the aim of receiving the Ph.D Degree

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