# NEWSLETTER

## *of the* Work Group Mathematical Fluid Mechanics

### *Newsletter no. 9 (2021)*

Today I write my second opinion piece on the lack of accessibility of vaccines in the European Union.                                                                *Christian Klingenberg*

## Wasilij Barsukow has been recommended for a permanent position in France

France has the highly prestigious *National Centre for Scientific Research (CNRS)*, a state organization that employs scientists on a permanent basis. They recruit about 10 mathematicians per year in a competitive fashion. Wasilij has applied and has just been recommended for such a position. This means that most likely he will be awarded this position.

*Wasilij after his PhD defense in 2018*

This is great news, because now Wasilij will (most likely) have an academic **permanent** position. It is such a relief to no longer have to worry where the next postdoc position will come from.

Congratulations, Wasilij!

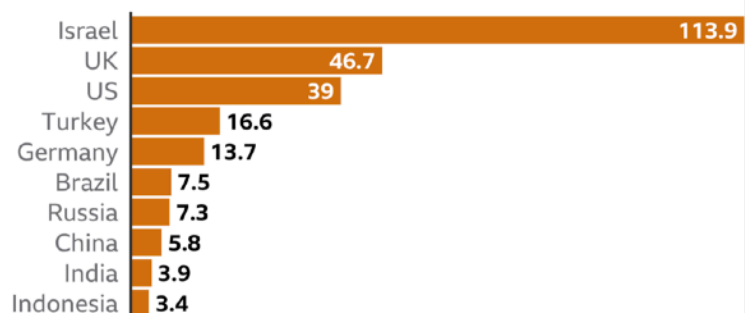## On the European Union rollout of vaccines

In a previous *Newsletter* I expressed the opinion that the slow rollout of vaccines in the EU (compared to the UK and the US) is due to the highly disadvantageous contracts the EU made with the pharmaceutical companies. There are even more compelling reasons, in my opinion.

The EU's approach has been to shop for vaccines like a customer. The Anglo-American approach was to recklessly go into business with the drugmakers. The EU contracted for doses of vaccine, whereas the US became an active partner in the development and the manufacturing of the vaccine. The EU was risk-averse, the US went all out, investing heavily in the drug companies, and still signing away all rights to intellectual property and absolving the drug companies of any liability.

This gamble by the US and GB has payed off in the availability of large amounts of vaccines. Let us hope the EU approach will supply us with enough vaccines by the summer.

### Vaccine doses per 100 people in countries with highest total vaccinations

*as of March 25, 2021*

| Country | Doses per 100 |
|---|---|
| Israel | 113.9 |
| UK | 46.7 |
| US | 39 |
| Turkey | 16.6 |
| Germany | 13.7 |
| Brazil | 7.5 |
| Russia | 7.3 |
| China | 5.8 |
| India | 3.9 |
| Indonesia | 3.4 |

Note: Total vaccinations refers to the number of doses given, not necessarily the number of people vaccinated

**Centre National de la Recherche Scientifique**

## I was offered a well-paid professorship in China

China is pouring a lot of money into science. They have a program where scientists from outside of China are enticed to become a professor there. This professorship is sweetened by offering a very comfortable salary. Given the cost of living in China the salary is significantly higher than what I make now.

I have been asked if I was interested in such a position in Hangzhou. Without hesitation I turned down the offer. My life here in Germany is comfortable enough that neither a high salary nor living in China is of much interest for me.



*view of Hangzhou, China*

## Videos of last weeks kinetic conference



The lectures of last week's online kinetic conference in Luminy, France, organized by Shi Jin, can be seen online here, *click here*.

Caution, the videos load quite slow and play only in some browsers.

## Ongoing seminar series

Here is an ongoing online seminar series, where past lectures can be viewed online: *Fifty Years of Kruzhkov Entropy Solutions*.

## Upcoming scientific conferences

Go ahead and click the links to check where you may want to participate.

**2021:**

-May 24 - 28: *The Legacy of Carlo Cercignani: from Kinetic Theory to Turbulence Modeling* Milan, Italy, organized among others by Tommaso Ruggeri

- June 14 - 18: *Numerical Methods for Kinetic Equations 'NumKin21'*, online workshop organized among others by Shi Jin, register by April 30

- June 21 - 24: *SIAM Conference on Mathematical & Computational Issues in the Geosciences (GS21)*, in Milan, to be held online

- July 2: *18th International Conference on Hyperbolic Problems, Theory, Numerics, Applications* - Part 1 (formerly HYP 2020), one day online with lectures by Dafermos, Min Tang and others

- July 5 - 9: *THE BOLTZMANN EQUATION: IN THE TRAIL OF TORSTEN CARLEMAN*, near Stockholm, Sweden

- July 12 - 16: *International Conference on Spectral and Higher Order Methods* ICOSAHOM 2020, Vienna (online only), Wasilij and myself plan to run a mini-symposium there

- Sept. 12 - 18: *Hirschegg Workshop On Conservation Laws* in Kleinwalsertal in Austria, organized by among others Gerald Warnecke

- fall: Special program on Numerical Methods for Nonlinear Hyperbolic PDEs; at SUSTech, Shenzhen, China: organized by Alex Kurganov (still in the planning stage)

- fall: *Nils-Henrik Risebro's birthday conference* in Oslo, Norway (still in the planning stage)

**2022:**

- some time in spring: *HIGH ORDER NONLINEAR NUMERICAL METHODS FOR EVOLUTIONARY PDEs: THEORY AND APPLICATIONS (HONOM)* in Braga, Portugal, organized by Raphael Loubère und Stephane Clain

- end of May: *Sharing Higher-order Advanced Research Know-how on Finite Volume (SHARK-FV)* in Portugal, organized by Raphael Loubère und Stephane Clain (still in its planning stage)

- June 20 - 25: HYP2022:*18th International Conference on Hyperbolic Problems, Theory, Numerics, Applications* - Part 2 (formerly HYP 2020), in Malaga, Spain, organized by Carlos Pares

- July 18 - 22, 2022: *When Kinetic Theory meets Fluid Mechanics*, Zürich

- Sept. 5 - 9, 2022: *10th International Conference on Numerical Methods for Multi-Material Fluid Flow (MULTIMAT 2021)* in Zürich, organized by Remi Abgrall