Boltzmann medal

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<u>In news-</u> Deepak Dhar, physicist, from the Indian Institute of Science Education and Research, Pune, has been selected for the Boltzmann medal recently. He became the first Indian to win this award.

About the award-

- It is a prize awarded to physicists that obtain new results concerning statistical mechanics; it is named after the celebrated physicist Ludwig Boltzmann.
- It is awarded by the Commission on Statistical Physics (C3) of the International Union of Pure and Applied Physics.
- It was initiated in 1975, with Nobel laureate (1982) K.G. Wilson being the first recipient.
- The award consists of the gilded Boltzmann medal with the inscription of Ludwig Boltzmann.
- The chosen two scientists will be presented the medals at the StatPhys conference to be held in Tokyo, 7-11 August, 2023.
- The medal, which honors outstanding achievements in the field of statistical physics, has been **given to one or two persons**, **once in three years**, in the last 47 years.
- It is given only once to a person and on the condition that that person has not won the Nobel prize so far.

About Deepak Dhar-

- Prof. Dhar was formerly a worker at the Tata Institute of Fundamental Research, Mumbai.
- He has been chosen for this award for his seminal contributions in the field of statistical physics, including exact solutions of self-organized criticality models, interfacial growth, universal long-time relaxation in disordered magnetic systems, exact

- solutions in percolation and cluster counting problems and definition of spectral dimension of fractals.
- He shares the platform with American scientist John J. Hopfield who is known for his invention of an associative neural network, now named after him.

Commission on Statistical Physics (C3) of the International Union of Pure and Applied Physics

• It was established by the International Union of Pure and Applied Physics (IUPAP) in 1945 to promote the exchange of information and views among the members of the international scientific community in the general field of Statistical Physics.

About IUPAP-

- It is the only international physics organization that is organized and run by the physics community itself.
- Its members are identified in physics communities in countries or regions around the world.
- The IUPAP was established in 1922 in Brussels with 13 Member countries and the first General Assembly was held in 1923 in Paris.
- It currently has 60 country members.
- The Union is governed by its General Assembly which meets every three years.