



OUR SELF-ASSEMBLING UNIVERSE

H FRANK GAERTNER

Our Self Assembling Universe Frank Gaertner

B Lingard

Our Self Assembling Universe Frank Gaertner:

Our Self-Assembling Universe Frank Gaertner, 2022-06-07 OSAU 2 is a book for all ages I believe that aspects of OSAU 2 which involve a person assembling the nuclei of atoms could even be used as an early form of play for children in preschool or kindergarten Doing so would be a great way to teach children the fun involved in learning how they are connected to our Universe My first volume of Our Self Assembling Universe was used in a very successful introductory guest class lecture on nuclear physics where over 300 eighth graders were able to assemble on their own the alpha particle i e the nucleus of the atom called helium 4 It was then easy to show how our star the sun uses that process to produce the nuclei of other atoms as well as the heat and light we so enjoy on planet Earth Next the students used their own self assembled alpha particle to create in the same way as do the stars in Our Universe the nuclei of carbon 12 nitrogen 14 oxygen 16 and neon 20 These model nuclei became souvenirs that the students could take home as wonderful memories of their enlightening strange day with the ukulele playing Dr Gaertner However as one will soon see from the Preface of OSAU 2 this book is even more unusual and it's not just for children OSAU 2 is the world's first AWTbook TM It's a book of the future a book that has the capacity to teach in the best way possible any erstwhile wannabe scientist be they girl boy woman or man no matter how old everything they might want or need to know about biology chemistry physics or dare I say it even quantum mechanics For example see for yourself how some 7 000 000 000 000 000 000 000 000 atoms self assemble the molecular machines that put us together and bring each of us to life every day And introduce yourself to the amazing quantum weirdness that makes it all possible

Photons Don't Glow H Frank Gaertner, 2025-07-07 My name is H Frank Gaertner The young woman shown below on the book's back cover is Sally Reynolds a fictional character whose water color image pretty well matches my imagination for an 18 to 21 year old literary foil Sally Reynolds is also the main character in Sally and the Magic River a fictional story about a 10 year old who has a tragic experience Such an experience happened to me at age 10 The result of our individual tragedies led both of us to live lives filled with magic As over 1000 reviews on Good Reads confirm Sally and the Magic River is wonderful and made even more so by its presentation on Audible com How so It's narrated by the magnificent story telling voice of Rebekah Nemethy It took a while but I now understand why Sally and the Magic River was so dear and easy for me to write Many events in the story reminded me of my own story Over the years Sally has become more real for me especially now at my age of 86 You will learn in Photons Don't Glow i e the book you now hold how our attempts to understand consciousness have taken Sally and me on a fantastic mental trip For example the following has been made obvious With rare exceptions each of us humans is in effect neural inked to a second conscious being We each have two cerebral hemispheres It's like we have two interconnected people living within us Each hemisphere has its own domain of experience For example my left hemisphere which I like to call Sally controls my right hand plays the piano by ear and remembers most everything my right hemisphere has forgotten Interesting isn't it The object I'm holding in the picture above

is my version of the nucleus of an atom i e the one that makes up the largest alkali metal in the periodic table of elements I assembled its 87 protons and 136 neutrons using nothing but fabric tape and ping pong balls I show in volume two of Our Self Assembling Universe how one can construct all of the atomic nuclei in the periodic table this way This fun method of assembly was used to introduce the basics of nuclear physics to over 300 8th graders However as was made abundantly clear such models only help one's initial grasp of quantum reality with its fields of force forcefields photons light perturbations of virtual particles and antiparticles in empty space and therefrom manifestations of quarks et al

Future Survey Annual
,1980 **Detroit Engineer** ,1960 **Books in Print Supplement** ,1985 **Illinois Reporter** ,1952 **AB Bookman's Weekly** ,1989 **Choice** ,1997 *Library Journal* ,1984 El-Hi Textbooks & Serials in Print ,2005 ,2005 *Subject Guide to Books in Print* ,1993 **Arts & Humanities Citation Index** ,1980

Enjoying the Track of Appearance: An Psychological Symphony within **Our Self Assembling Universe Frank Gaertner**

In a global taken by monitors and the ceaseless chatter of instant transmission, the melodic beauty and psychological symphony developed by the published word frequently disappear into the background, eclipsed by the relentless noise and disruptions that permeate our lives. But, located within the pages of **Our Self Assembling Universe Frank Gaertner** a charming literary value overflowing with natural emotions, lies an immersive symphony waiting to be embraced. Constructed by an outstanding composer of language, this interesting masterpiece conducts readers on an emotional journey, well unraveling the hidden songs and profound influence resonating within each carefully constructed phrase. Within the depths of this poignant analysis, we will investigate the book's central harmonies, analyze its enthralling publishing style, and surrender ourselves to the profound resonance that echoes in the depths of readers' souls.

<https://crm.allthingsbusiness.co.uk/results/scholarship/Documents/reading%20comprehension%20last%2090%20days.pdf>

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