



# The Superior Highest Quality in the World Construction for Prevention of Catastrophes



**Alexander Trinker\***

*Regeneration Technology Centre & Consulting Development Innovation on demand, Russia*

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**\*Corresponding author:** Alexander Trinker, Regeneration Technology Centre & Consulting Development Innovation on demand, Moscow, Russia

## Abstract

Annually in Russia publish volume lists of winner's different awards, including at the end of 2018 published the big list awarded with a prize of I.A. Ilyin "For quality and culture". Modern magazines of Russia issue articles devoted to different achievements in quality and labor productivity, however the number of accidents and accidents in XX1 increases a century. Reflecting over this problem it is possible to draw conclusions: education and training of domestic engineers and scientists decreased, there are no criteria for evaluation of engineering work, monitoring of use of new construction materials and technologies is cancelled, the developed standards on the basis of foreign do not correspond to climatic conditions of Russia, as a result the quality in construction and operation decreases.

The author of this article published works starting with the "ENEА — the Exhibition of Achievements of National Economy of the USSR" magazine in 1974, that is work was presented at a construction exhibition of innovations. Most important: all constructions and designs constructed by the author still work without repair and without accident that is reflected in more than 160 works published from 1974 to 2019.

**Keywords:** Accident; Catastrophes; Quality; Reliability; Fail-safety; Durability; All-weather capability; Innovations; Import substitution

## Implementation of the plan of electrification of GOELRO No. 2

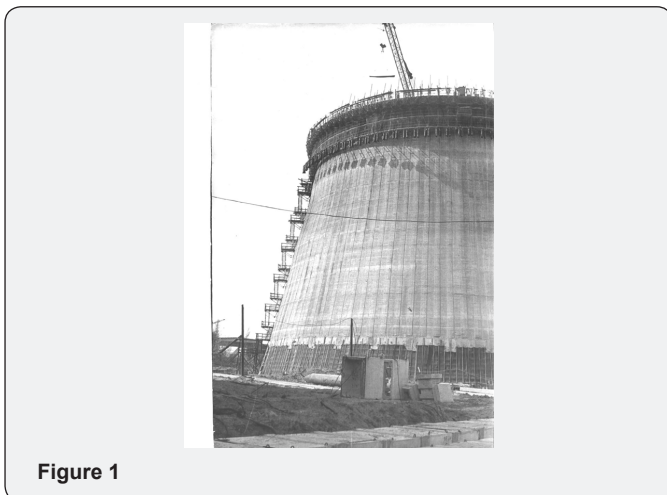


Figure 1

1977, for the first time in the USSR the carried-out conveyor technology in construction, the thin-walled super-durable reinforced concrete cooler, monolithic without working seams of concreting, from hydrotechnical concrete 90 meters high on CHPP-25 of Mosenergo (Ochakovo) built from cast concrete mix

(24-26 cm OK) with LTM super softener (TU 480-2-4-76), in the sliding timbering with use of the concrete pump, calculated for 100 years of work in extreme, all-weather temperature and moist conditions, at temperatures: inside water condensate plus 40-80 degrees, outside on weather from minus 50 to plus 55 degrees Celsius (corrosion leaching). Design grades of hydrotechnical concrete: M400 (kgf/cm<sup>2</sup>), Mrz300, B8 (Figure 1).

## Application

LTM super softener, the sliding timbering, the concrete pump and continuous round-the-clock quality control (PZL device) was provided by the quality of a construction, highest in the World.

## Project and Technology

PhD in Technological Sciences Boris Trinker (1914 - 2004) head of the laboratory of high-rise and special constructions of VNIPI Teploproyekt of Minmontazhspsstroy of the USSR.

## Construction

The engineer Alexander Trinker the chief technologist V.O. Gidrospsstroy of the Ministry of Energy of the USSR constructed standard 90-meter coolers at the Moscow combined heat and

power plants – 20, - 21, - 22, - 23, - 25, - 26, in Leningrad (The northern and southern CHPP of Lenenergo), Minsk and Gomel (Belarus), Kiev CHPP-6 (Ukraine), on a water-cooling tower in Gomel the record speed of sliding of a timbering in the World = 7-8 meters a day (1980), and also for the first time in the World was reached: coolers towers =150 meters high on the Rivne NPP (Ukraine) and the New-Angren state district power plant (Uzbekistan).

1977, on the right chief technologist V. O. Gidrospetsstroy of the Ministry of Energy of the USSR Alexander Trinker, at the left chief of CHPP-25 (Ochakovo, Moscow) under construction of Mosenergo of the Ministry of Energy of the USSR (Figure 2).

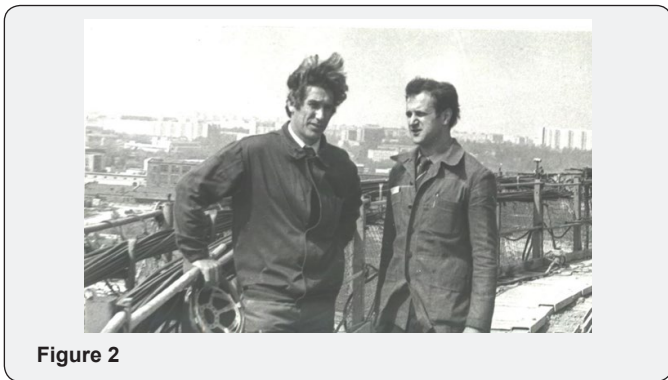


Figure 2

### 1977 Beginning of our Super Height

Coolers 150 meters high of the Rivne NPP (Kuznetsovsk), the western Ukraine, the First SUPER and HIGH-RISE and VERY FIRST in the USSR and in Europe, the cooler - a hyperbolic paraboloid. All-weather year-round construction of huge 150-meter special and durable super and frost-resistant cooling reinforced concrete towers from hydrotechnical all-weather concrete with application of lignosulfonate of LTM, an operating mode: inside condensate plus 40-80 degrees, outside on weather from minus 50 to plus 55 degrees Celsius. It is one more proof of domestic highest scientific and technical achievements of the XX century. Then I constructed the same coolers on the New-Angren state district power plant in Uzbekistan. Unique ETERNAL Concrete – continuation of Ostankino Television Tower (1963-1967), Concrete which and on fire at 1000 degrees Celsius does not burn – is checked in the fire-2000 of year!

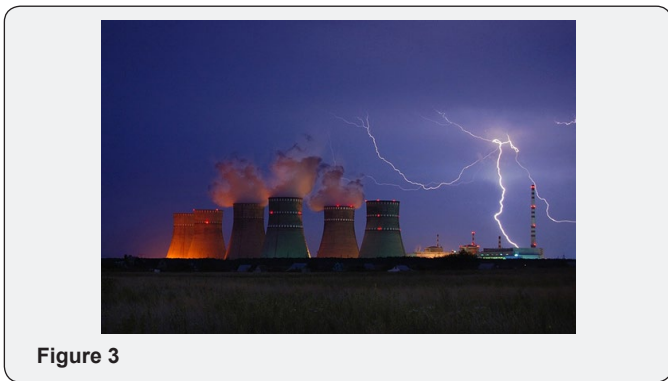


Figure 3

Project and technology PhD in Technological Sciences B.D. Trinker VNIPI Teploproyekt Minmontazhspeystroya of the USSR. Author of concrete Alexander Trinker, chief technologist of the Ministry of Energy of the USSR (Figure 3).

### The Built Most Unique Constructions in the World

1978, Ekibastuz state district power plant No. 1, chimney (smoke) stack height: 300 meters (the timbering sliding) No. 1, and 330 meters high (a timbering rearrange) No. 2, A.B. Trinker on technology of Eternal All-weather Concrete of Ostankino, in the conditions of catastrophic sharp and continental climate of Kazakhstan at temperatures constructed plus 55 degrees in the summer and minus 45 degrees Celsius in the winter, without accident in Work more than 40 years making huge profit for new owners! (Figure 4).



Figure 4

The reinforced concrete chimneys built by the author in the USSR at combined heat and power plant and state district power plant 250-330-420 meters high, work without accident decades in crisis conditions: concrete is affected by various acids from condensates of products of combustion of fuel (Corrosion acid, exchange reactions), and to huge gradients of temperatures: from minus 50 degrees to plus 55 degrees Celsius (Figure 5).

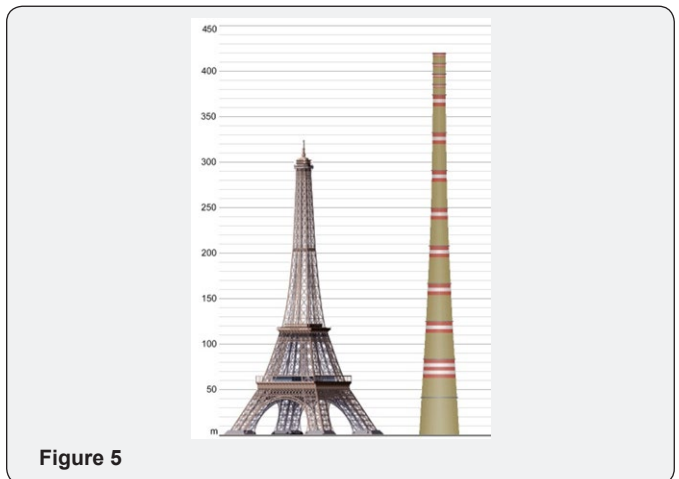


Figure 5

1986, Record height in the World is 420 meters, the highest chimney of Ekibastuz GRES-2 (Kazakhstan) in the World, participant of “Guinness World Records”, author of Eternal Concrete Alexander Trinker.

Alexander Trinker repeated course of Life the Way of Boris Trinker: played sports playing rugby in the championships of Moscow and the team chose as the Captain, worked at constructions of the most high-rise in the World of unique constructions, always risking the life at space Height! Personally, solved thousands of exclusive professional problems precedents without participation of others, all constructed most unique constructions in the World

without catastrophes and continuously work decades, bringing huge income to new owners.

The Boris Trinkers school is a unique technique of accident-free construction!



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