



Addenda to Criticism of the Current Science in the World

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Abstract: I have published a paper [1] in which I have mentioned some scientific problems of Iran. This article is as Addenda to that paper. Therefore, some scientific problems of Iran in the field of oil and gas, metallurgy, corrosion, welding, water management and drought, medicine and missiles were reviewed. As a result, it was concluded that Iran will not become anything in the science. Finally, it was suggested that the only way for the scientific advancement of Iran in all fields is to regard Iran as a state of United State of America country.

Keywords: Oil and Gas, Metallurgy, Drought, Missile, Corrosion Coatings, Welding Filler Metals

Main Body of the Manuscript:

Voice of America (VOA Persian) has issued an article [2] that is in the same line with this paper. In fact, that article from VOA Persian confirms this paper. Also Eminent Crown Prince Reza Pahlavi has a saying from Atamalek Joveini about Iran Islamic Regime as “They came and dug and burned and killed and took away and went” [3] which approves this paper.

A large part of discovered science is not revealed to public and for example in books, journals universities, internet and so on [1]. Iran has the largest gas and the fourth largest oil reservoirs in the world. But these oil and gas should be extracted and processed which needs technology. At the time of Eminent Mohammad Reza Shah Pahlavi, there was good political relations between Iran and superpowers. As a result, giant oil and gas companies from USA and UK came to Iran and worked on Iran oil industry and made Iran prosperous. Unfortunately, after Iran revolution in 1979, Iran was under the international oil and gas sanctions and as a result these giant oil and gas companies did not work in Iran anymore. This is a shame that Iran has oil and gas reservoirs but cannot use these oil and gas. In the upstream section of oil and gas industry, the average oil recovery factor of Iran oil reservoirs is 25% which is below its international average (35%) [4]. Increasing oil recovery factor needs technology which the superpowers have it and Iran does not have it. In the downstream section of oil and gas, the construction of refineries and petrochemicals needs technology which again Iran does not have it and superpowers have it. But superpowers do not participate in Iran oil and gas industry. If the crude oil and gas is converted to refinery and petrochemical products, then Iran will get profit many times greater than the profit obtained by selling crude oil and gas.

In the case of metallurgical sciences, let's have a look at the “Key to Steel” reference handbook [5] which includes more than 70,000 standard designations and trade names from approximately 300 steelmakers and suppliers from 25 countries. There is a link [6] from official site of “Key to Steel” which introduces the 25 countries who have invented these steels. According to this link, these 25 countries are:

Australia, Austria, Brazil, Bulgaria, Canada, China, Czech/Slovak Republic, Finland, France, Germany, Great Britain, Hungary, India, Italy, Japan, Republic of Korea, Norway, Poland, Romania, Russia, Serbia, South Africa, Spain, Sweden, USA.

As you can see, Iran does not lie within the countries who have invented steels. These steels are very vast and different which include steels for structural and constructional steels (general structural steel, case hardening steel, nitriding steel, free cutting-steel, heat-treatable steel, ball and roller bearing steel, spring steel, steel for superficial hardening, steel for cold extrusion, tough at subzero steel, pressure vessel steel, heat resisting structural steel, fine grained structural steel, ...), tool steels (carbon tool steel, high speed steel, hot work tool steel, cold work tool steel, ...), valve steels, high temperature steels and alloys, heat-resisting steels, heat conducting alloys, stainless steels, stainless steel castings, and welding filler metals. I have previously said that a large part of discovered science is not revealed to public [1]. Here we also see that the production maps for most of these steels are secrets and are not revealed to public. For example, Iran cannot produce API Grade Steels, ASTM Grade Steels, AISI Grade Steels and so on. It should be noted that steels listed in “Key to Steel” handbook are inventions that make money and are for sale and are not expository only. The factories in Iran that produce steels are either directly constructed by foreign countries or are copied from factories of foreign countries (or are copied from the factories in Iran that are constructed by foreign countries).

I have previously said that a large part of discovered science is not revealed to public [1]. For example, in the field of corrosion, we see that Iran cannot produce many types of industrial coatings (and linings) and therefore the products of famous foreign brands like AKZO NOBEL, PPG, THE SHERWIN WILLIAMS,



AXALTA COATING SYSTEMS, BASF COATINGS, DENSO, POLYKEN, BELZONA, NIPPON PAINT HOLDINGS CO., ZINGA, DUPONT, RPM INTERNATIONAL and etc. are imported to Iran and are sold in Iran. Other types of coatings that are produced in Iran like different types of industrial paintings are invented in foreign countries and Iran did not invent any type of coatings. The factories in Iran that produce coatings are either directly constructed by foreign countries or are copied from factories of foreign countries (or are copied from the factories in Iran that are constructed by foreign countries). For the inspection of coatings (and linings), it can be seen that instruments of coating inspection like ISO and ASTM comparators for surface cleanliness measurement, replica tapes for surface profiles, dry film thickness measurement tools (mostly from ELCOMETER brand), Bresle test equipment for salt test, instruments for pull off adhesion test (mostly from DEFELSKO brand), holiday detectors and etc. are imported to Iran and Iran cannot produce them. Also it should be noted that all of these instruments for coating inspection are invented outside Iran and Iran has not yet invented any of them. The production maps for most of industrial coatings are secrets and are not revealed to public.

In the field of welding, Iran cannot produce many types of filler metals and therefore the products of famous brands like UTP, LINCOLN, ESAB, BOHLER, HYUNDAI WELDING and etc. are imported to Iran and are sold in Iran. Recently different filler metals brands from China are sold and used in Iran. Due to lack of knowledge of welding in Iran, even the products catalogues of these filler metals brands are used as references for welding. It should be noted that all types of welding filler metals are invented outside Iran and Iranians have not yet invented any filler metal. It should be noted that there are many types of welding filler materials and for example BOHLER company introduces about 2000 different welding filler materials in its products catalogue [7]. Other references like AWS (American Welding Society) introduce more welding filler metals which are classified according to table 1 [8].

Table 1- AWS filler metal specifications by material and welding process.

	OF W	SMAW	GTAW GMAW PAW	FCAW	SA W	ES W	EG W	BRAZING	THERM AL SPRAYI NG
Carbon Steel	A5.2	A5.1*A5.3 5	A5.18*A5. 36	A5.20*A5. 36	A5.1 7	A5.2 5	A5.2 6	A5.8*A5. 31	C2.25
Low-Alloys Steel	A5.2	A5.5	A5.28*A5. 36	A5.29*A5. 36	A5.2 3	A5.2 5	A5.2 6	A5.8*A5. 31	C2.25
Stainless Steel		A5.4*A5.3 5	A5.9*A5.2 2	A5.22	A5.9	A5.9	A5.9	A5.8*A5. 31	C2.25
Cast Iron	A5.1 5	A5.15	A5.15	A5.15				A5.8*A5. 31	
Nickel Alloys		A5.11*A5. 35	A5.14	A5.34	A5.1 4	A5.1 4		A5.8*A5. 31	C2.25
Aluminum Alloys		A5.3	A5.10					A5.8*A5. 31	C2.25
Copper Alloys		A5.6	A5.7					A5.8*A5. 31	C2.25
Titanium Alloys			A5.16					A5.8*A5. 31	
Zirconium Alloys			A5.24					A5.8*A5. 31	
Magnesium Alloys			A5.19					A5.8*A5. 31	



Tungsten Electrodes			A5.12						
Brazing Alloys and Fluxes								A5.8*A5.31	
Surfacing Alloys	A5.21	A5.13	A5.21	A5.21	A5.21				C2.25
Consumable Inserts			A5.30						
Shielding Gases			A5.32	A5.32			A5.32		
Ceramics									C2.25

The production maps for most of these filler metals are secrets and are not revealed to public. The factories in Iran that produce welding filler metals are either directly constructed by foreign countries or are copied from factories of foreign countries (or are copied from the factories in Iran that are constructed by foreign countries).

It can again be seen that Iran will not become anything in the science as I have said previously [1]. I have previously criticized ISI papers [1]. In addition, I can say that many ISI papers are fake data created by the authors to support the main idea of the manuscript and are not real data obtained by laboratory experiments (tests) for example. As a result, we can see that many ISI papers are valueless scientifically.

As another example we see that the text books for all engineering fields at the universities (like petroleum engineering, metallurgical engineering, computer engineering, mechanical engineering, chemical engineering and etc.) are written in USA and Iran cannot produce such sciences that all the world accept and use. Therefore, we see that Iran will not become anything in the science.

Another main concern of today Iran, is the drought and shortage of water. The policy of Iran regime after 1979 Islamic revolution has been the independence in production of agricultural products for food which resulted in the increase in number of water wells and severe consumption of underground water and shortage of drinking water in Iran [9]. Water should be managed according to the science and Iranians do not have such technology for the management of water.

Iran has payed lots of money to develop its missile program. But these missiles are not useful today. For example, Iran gives his missiles to The Yemen Houthis, officially called Ansar Allah and they throw these missiles to Saudi Arabia. But all these missiles are destroyed before hitting the target by the Missile defense systems of Saudi Arabia [10]. This is the same for all Iranian missiles. It is written on the Iran missiles that “Down With Israel”. But these missiles will be destroyed before hitting the Israel by the missile defense systems of Israel. Therefore, we see that Iran missile programs are waste of money because they are not useful. For example, Iran could make the bread free for its people instead of paying money for its missiles. As you can see Iran is nothing in the defense technology. So again you can see that Iran will not become anything in the science.

In the case of medical sciences, Iran has not yet invented a drug of a disease for the whole world to use it. All the drugs that are used in Iran are invented in foreign countries. The factories in Iran that produce drugs are either directly constructed by foreign countries or are copied from factories of foreign countries (or are copied from the factories in Iran that are constructed by foreign countries).

This is the same for the books of medical sciences which are taught in medical universities since they are all written in foreign countries (mostly in USA). Whatever book that we have in Iran are translations from foreign books. Iran cannot produce such sciences that all the world accepts and use them. The books and drugs in medicine are very scientific, important and accurate since they deal with the human health.

In general, we can see that all the factories in Iran are either directly constructed by foreign countries or are copied from factories of foreign countries (or are copied from the factories in Iran that are constructed by foreign countries). Therefore, Iran will not become anything in the science.

The only way that I strongly suggest for the scientific advancement and development of Iran in all fields is to make, regard and announce Iran as a state of USA (United States of America) officially and politically (and totally). I.e. Iran should make and regard itself as a state of USA (United States of America)



politically (and totally). I have heard that this idea was first suggested by Eminent Mohammad Reza Shah Pahlavi for Iran.

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