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Chromatography: a glance from XXI century

By Aram Hayrapetyan

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Dear Colleague!

Efficiency.

I am sure it interests You – especially in attaining a maximum efficiency of the chromatographic column in use. It should be acknowledged that not all has been done yet in this field of chromatography. That's why the proposed technology has a high significance.

Thus a new basis has been opened from which the whole philosophy of the theory of Chromabarography can be easily developed as an entity, and I suppose in the near future we shall have experimentally confirmed such a theory of chromatography which will evidently be similar to geometry.

I hope I managed
You to get
acquainted
with the advantages
of the new
basic technology
of chromatography –
Chromabarography
(Hayrapetyan's Effect).

It is interesting, do you not think so?

It follows to note that the virtually presented information about chromabarography opens only the top of the iceberg.

I think you will evaluate and determine yourself the diagnosis of the contemporary state of the competitiveness of the chromatographic apparatus and of the technologies applied and will get measured answers for the main questions:

Where are You?

Where are the others?!

What do they offer and where to move from here? ...

... and on this basis will make a choice of the purposes of competitive strategy:

Your firm's development, preservation of its goodwill;

organizations of researches for the creation and manufacture of more modern means of analytical

instrument-making with the use of the basic technology – Chromabarography;

development of original, high-effective methods of chromatographic analysis, etc.

And in this is concluded my aim!

So, the choice is Yours ...

With best regards,

Aram Hayrapetyan

www.chromatography.hotbox.ru

ARAM HAYRAPETYAN Born 17 May 1945, married, two children. Daughter born 1972, married. Son

born 1977. 47/6 Vardanants Street, Vanadzor 377201, Republic of Armenia, E-mail:

invent@freenet.am Web-site: [HTTP://CHROMATOGRAPHY.HOTBOX.RU](http://CHROMATOGRAPHY.HOTBOX.RU)

www.chromabarography.hotbox.ru www.freenet.am/~chrom

Chromatography – Hayrapetyan's Effect

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"It was not so difficult to invent a new basic technology of Chromatography – Chromabarography; it is rather difficult to wait for its wide practical use for the development of science in the benefit of mankind!"

Aram Hayrapetyan

There are the best chromatographs in the world, the most modern technological elaborations, but there is not the one, which provides the maximum efficiency of the chromatographic column.

I have a lot of secrets in the field of chromatography!

One of them is the attainment of maximum possible efficiency of the chromatographic column (HAYRAPETYAN'S Effect).

It is provided with new basic technology of chromatography – CHROMABAROGRAPHY (Russia patent "Chromatograph of A. S. Hayrapetyan").

The essence of the new basic technology of chromatography – chromabarography is the provision of the optimal conditions of the analysis by keeping unchanged the linear rate of an imaginary point – the zone of the sample moved in time by the carrier–gas from the inlet to the outlet of the chromatographic column, p being kept constant at its ends during the whole cycle of the analysis, by which a maximum column efficiency (Hayrapetyan's Effect) is attained.

What is Chromabarography?

The answer may be so: Or . . . so:

The main advantages of the proposed technology in practical analysis may be generated in the form of the following propositions:

Attainment of maximum possible efficiency of the column on account of providing the optimal conditions of the analysis by keeping unchanged the linear rate of an imaginary point – the zone of the sample moved in time by the carrier–gas from the inlet to the outlet of the chromatographic column;

Reduction of analysis time for a wide range of mixtures, which allows to work with a shorter column (economy of solid support, liquid phase, column material) and at much lower temperatures (economy of electricity) for which the relative retention is generally high. Thus the best separation is attained without increasing the analysis time. This means an increase in the productivity of routine analyses and elaboration of chromatographic methods;

Due to the fact that it is possible to work at lower temperatures (economy of electricity) the amount of the liquid phases used in the given analysis is increased. At the same time low working temperatures may become necessary for certain thermally unstable samples (increase in column service time);

As the peak height is related with carrier–gas rate, wide peaks eluted later will be much sharper. This

allows a better identification of low concentrations (increase in analysis accuracy);

Attainment of symmetrical peaks also in case of nonlinear adsorption isotherm, as the rear of the band is at a higher pressure than the front;

The substantial enrichment, the increase in concentration of the component in the center of the band is conditioned by the compression of the band both as a consequence of the moving pressure gradient compared with the initial sorption pressure, and as a consequence of the presence of the moving gradient of the optimal linear speed accompanying the band of components being analyzed from the inlet to the outlet of the chromatographic column during the while analysis cycle (increase in the efficiency of the separation of the components);

The pressure of the gas in the column can be changed almost instantaneously and equilibrium can be attained in a very short time. Pressure re–regulation excludes the necessity of long "periods of cooling" of the column (express – analysis, economy of electricity), while temperature increase programming may either cause evaporation of the stationary phase, which "flies out" of the column, or destroy it chemically to various molecules, which also will soon come out by the carrier–gas. The repetitive cycles of heating and cooling may cause compression of solid support particles during expansion, followed by

destruction (crumbling) during compression, which leads to a progressive change of permeability.

The maximum

possible

effectivity

of the

chromatographic

column –

Hayrapetyan's Effect

The maximum possible effectivity of the chromatographic column – Hayrapetyan's Effect

All the rest – XX century.

P. S.

Chromatography

A new step of effectivity,

A first – hand new technology.

Toward the new century with a new technology.

ARAM HAYRAPETYAN 47/6 Vardanants Street, Vanadzor 377201, Republic of Armenia, E-mail: invent@freenet.am Web-site: [HTTP://CHROMATOGRAPHY.HOTBOX.RU](http://CHROMATOGRAPHY.HOTBOX.RU) PUBLICATIONS AND ARTICLES: 57 published works, including 21 certificates for individual authorship from USSR and Russia, Germany, Czechoslovakia and Bulgaria. PERSONAL DATES: Born 17 May 1945, married, two children. Daughter born 1972, married. Son born 1977.



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