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"Specialization, Semiosis, Semiotics"

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Living systems function via the knowing process they are composed of. Life has been quite stable in the realm of iconic and indexical knowledge. The appearance of symbolic languages has detached the knower and the known, giving the knowledge a freedom to pose the problems that are independent from its function and thus creating an immense need for superfluous knowledge. However, a balance is sometimes possible also in a human culture. Once dealing with knowing itself, semiotics would naturally have the tools for understanding this. As an aspect of it, awareness on the role of semiotics may be relevant.

Position of semiotics in culture and in academe—and particularly its long-term position—is directly dependent on its position in University. Permanent position of a field in University assumes acknowledging and understanding of the deep content and function of the subject which in case of semiotics would derive from the study of semiosis and the study of its place in the world.

A gradualist view on history would describe the slight quantitative changes the percentage of semiotics in the curricula has undergone. A saltationist view, instead, would dramatize the story. Since last two centuries, University has put an emphasis on teaching the expansion of technology, the invasion of the scientific, the artificial and the want-to-be-monistic. If this was the teaching of the Moderns, then the age after the Moderns is what stresses the diversity, meaningfulness (= plurality), and balancehood. This is the age of ecology and semiotics.

Semiotics which has been taught for a long time as a supplementary course attached to linguistics, communication, cultural studies, biology, philosophy, or some other program, has developed its first independent full-scale programs in recent decades and demonstrates their stability. This is based on understanding the function of semiotics as the transdisciplinary basis for sciences (particularly for life sciences and humanities) that deal with knowing in a broad sense.

The importance of teaching semiotics has been focused already by Charles Morris (1946). Together with consolidation of semiotic conceptual fields, the role of semiotics in education has received a special attention, for instance in writings by Bense (1977), Sebeok (1979; 1989; 1994), Cunningham (1987a). Pelc (1992), Mosbach (1994), Nöth (2000: 533–536), Cobley (2000), Bouissac (2007), etc. There have been published particularly detailed reviews on teaching semiotics in German (Lange-Seidl 1983–1988; Stücker 1990; 1991; Hack

1992; 1993).1

51. "Importance of Semiotics in the University" \* Kalevi Kull

### 1. General assumptions

The role of semiotics in education and in the non-physical sciences is largely *independent* on whether semiotics is understood as a doctrine, or a methodology, or a field, or a science. This is because semiotics has widely and efficiently contributed to the modelling as such, as it is used in humanities and life sciences.

There is a certain deep analogy between the place of physics in natural sciences and the place of semiotics in the study of culture and life. The role of both is to provide a general theory, and the general methods of study. Physics and semiotics, being so fundamentally different, can serve as the bases for large domains of knowledge.

Knowledge naturally divides into knowing of *other* (which is physics, physical), and knowing of *self* (i.e., of knowing itself,<sup>2</sup> which is semiotics, semiotical). These are respectively the knowing of (every)thing, and the knowing of knowing.

Biosemiotics means the acceptance of non-propositional knowledge in addition to propositional knowledge, non-linguistic in addition to linguistic, knowing-how in addition to knowing-that, the body intelligence in addition to mental rational. Biosemiotics, in its large part, is a study of non-propositional knowing.<sup>3</sup>

Clearly understanding the position and function of semiotic knowledge—as the knowing of knowing (of all forms of knowing, from the level of a living cell to the level of arts)—it turns out to be possible to envisage the paths to put semiotics to fulfill the role it is meant to have.

This allows also to analyze the question about specialization to semiotics—about the possibility to become a professional semiotician, via studying semiotics from professional semioticians.

Semiotics is inherently transdisciplinary.<sup>4</sup> It is not one specialty, it is many

See also an analysis of the concept of academic discipline in Posner 1988

<sup>&</sup>lt;sup>2</sup> Physics as the theory and study of structure and dynamics, and semiotics as the theory and study of sign relations, are in a large extent complementary approaches, physics building itself on the quantities, and semiotics on the qualities. However, this complementarity is strongly opposing—and overcoming—the cartesian dualism, because the mental can be understood as the conveyance of relations which is itself the life process. On the comparison of these, see Kull 2007.

<sup>&</sup>lt;sup>3</sup> On the distinction between the non-propositional and propositional knowledge as well as the concept of errors, see, e.g., Almeder 1999.

<sup>&</sup>lt;sup>4</sup> The approach here is largely in unison with the thoughts from the workshop "Semiotics: a highly needed transdisciplinary post-modern "science" in the knowledge society" held in Copenhagen in April 30, 2008, which included, among others, the papers "Semiotics and Academe: at the heart of the problem of knowledge" (John Deely), "Semiotics as a tool for transdisciplinary thinking uniting science and humanities" (Frederik Stjernfelt), etc.

Nevertheless, it is also semiotics. Thus it includes a deep contradiction, a challenge for all other specialties—because none of them can do without semious—and even a greater challenge to itself as how to be one if you are many.

## 2. Experience in teaching semiotics

"The university is perfused with signs, if it is not composed exclusively of signs.—Peirceonal communication."

Thomas Albert Sebeok 1991: 🚚

History of teaching semiotics can certainly be described in many different ways, particularly due to the ambivalence of identification of a course as a semiotic (particularly if it does not use that name, and in some cases also despite the name 'semiotic').

As a recent characterization of the situation, let me quote Marcel Danes who speaks about teaching semiotics in North America (Danesi 1991):5

Even as we approach the end of the twentieth century, it seems that the mindset of North American university education has not as yet embraced the field of semious as part of the standard fare of course and program offerings. There are still very few universities on this continent which offer courses in semiotics, let alone specialization in the field. Graduate programs are virtually non-existent. A large part of this predicament has been due, no doubt, to the fact that the North American educational landscape has always been partitioned into clearcut disciplinary domains. As an interdisciplinary form of inquiry, semiotics has imply, never found a niche in this sectionalized territory.

One may get a slightly more optimistic impression from the article by Doris Mosbach (1994), who gives descriptions of semiotics programs in 19 places: Barcelona, Berlin, Bologna and San Marino, Brussels, Imatra and Helsinki, Ljubljana, Lund and Stockholm, Lyon, Odense, Perpignan, Newbelli, Sao Paulo, Sofia, Sydney, Tartu, Thessaloniki, Tokyo, Toronto, Warsen Besides the 12 European countries (Belgium, Bulgaria, Denmark, Estonia, Finland, France, Germany, Greece, Italy, Poland, San Marino, Spain), these include Australia, Brazil, Canada, India, and Japan. Mosbach adds (1994: 147)

Die meisten der vorgestellten Programme haben sich für ein gehobenstellten Einstiegsniveau der Studierenden entschieden. So wird Semiotik nach den her vorliegenden Informationen nirgends propädeutisch oder im Grundstudium zum Schwerpunkt gemacht. Einzig in Tartu wird das Semiotikstudium als ein vollstudium angeboten, aber auch dort werden vorkenntnisse und erste Erfahrungen im was senschaftlichen Arbeiten vorausgesetzt."

The list given by Mosbach (1994) was probably not complete, and the saturation has also changed for now, with some new centers added.

### 1. The semiotics courses

Teaching of semiotics has a longer history. T. Sebeok (1991: 95) has stated his belief that "the very first sequence of courses in semiotics, so labeled, in any curriculum anywhere was offered by Charles Morris, beginning in the late 1930s, at the University of Chicago". Besides Sebeok himself, the other participants in the course, whom Sebeok could remember, were Walter Pitts (who became a collaborator of Warren S. McCalloch), science author Martin Gardner, and musicologist Leonard Meyer.)

Single courses on semiotics are taught nowadays in many universities of the world. These are often attached to communication and cultural studies programs, but sometimes also to the curricula of linguistics, biology, philosophy, marketing, etc.

After a peak popularity of semiotics in 1970s, followed by a decline in 1990s, notable signs of a new growth can be observed nowadays.

For instance, in Italy, by an initiative of the semiotics group in Bologna University, the proposal was made to introduce semiotics courses in seven other universities. This initiative, surprisingly, had unexpected results — a course of semiotics has been introduced into 90 universities of the country.<sup>6</sup> One had to worry whether there can be found that many teachers.

However, in the Feltrinelli bookstore in the downtown of Bologna, one can see a whole shelf of books with the label "Semiotics (and linguistics)". Among these, there are simultaneously at least 6 different original introductory text-books in semiotics, all in Italian, to my knowledge not translated into English.

In addition to the introductory courses and textbooks,7 there exist also some documentary films on semiotics that can be used in introductory courses. These include, for instance, (a) Roger Parent's video ("Cultures in conflict" 2004) of several series on the creativity of culture, based in large extent on Lotman's approach; (b) a new 60-min documentary "Lotman's world" (with A. Pjatigorski, V. V. Ivanov, U. Eco, P. Torop and M. Lotman interviewed), (c) Elliot Gaines' documentary "Charles Sanders Peirce: Semiotics and the Logic of Pragmatism" from 2000; etc.

# 2.2. Semiotics as a source of ideas for education itself

Acquiring knowledge belongs most naturally into the subject field of semiotics (as, e.g., knowing of knowing).8 Donald J. Cunningham has guest edited a special issue "Semiotics and Education" of the *American Journal of* Semiotics 5(2), 1987. Cunningham (1987b: 214) writes:

<sup>5</sup> In that article, Danesi (1991) reviews two books (Deely 1990, and Nöth 1990) as good sources for semiotics teaching.

<sup>&</sup>lt;sup>6</sup> Personal communication from Umberto Eco, August 2008.

On the introductiory texts to semiotics, see also Kull, Salupere, and Torop 2005.

<sup>8</sup> Incidentally, the very first article published in Tartu journal, Sign Systems Studies (Trudy po znakovym sistemam), dealt with semiotics of learning (I. Kull 1965; the first volume of Sign Systems Studies included a complete monograph by Juri Lotman).

quite naturally, wise students may ask about a course on zoo- or

at the heart of our educational system. No goal is more important. students and teacher to examine the roots of these forces and how their influence discussions. Awareness of these forces and their consequences would allow both unaware of the ideological forces which seem to be influencing their classroom might be altered, if desired. It seemed to us that such freedom of inquiry should lie For instance, in the classroom ..., both students and teachers seem genuinely

## Cunningham adds (1987b: 214):

relate, how signs are used, how signs may be "read" or about awareness of sign thinking that if adopted can not help but change the face of education. process. It is precisely this interconnectedness, this web of interrelationships that One can not talk for very long about signs without talking about how signs interleads me to characterize semiotics as a genuinely new way of thinking, a way of

places where appropriate contexts for knowledge making are provided." of semiosis and monitors of the student's ongoing semiosis. Schools become sciously construct the world in which they are to live. Teachers become models ity whereby we equip students with the wherewithal to deliberately and self-contaught what to think but how to think. In this view, schooling becomes an activways of knowing in the physical and social sciences. Students would not be ways of knowing in the humanities are not fundamentally different from the Traditional subject matter boundaries would dissolve as it became clear that the verbal and mathematical modes, but in a variety of interconnected modes The curriculum would emphasize ways of knowing not simply in the traditional What, then would education based upon semiotic insights look like? [...

ones of the self of the culture—the agent that has no way not to signify. indeed grow the awareness of the communication, the self itself-this being cations in the International Journal of Applied Semiotics.9If semiotics may interest group "Semiotics and education", with a series of meetings and publiour students into semioticians, to teach them to "read" the signs all about them." ion about semiosis. [...] There is no more important educational goal than to turn reflection. Cunningham (1992: 445) remarks: "Reflexivity at its core is reflexthe students of semiotics themselves. Which means that they turn out to be the both researcher and educator this will, above all, concern the semioticians and The American Educational Research Association has a fairly active special As Alex Gillespie (2007) says, semiotics provides a theory of and for self

### 2.3. Semiotics programs

When there is a course in semiotics, dealing mainly with semiotics of lan-

guage and culture, but mentioning that the field actually covers more-then

9 On the existence of similar activities in Europe, a recent symposium on the topic "Semiosis as a Foundational Concept for Education", 16–17 October 2008, in Ghent,

Belgium, can be mentioned as an example.

otics of culture and biosemiotics, another course has to be introduced. So there Aarhus (Denmark). There are also quite extensive semiotics programs in the of Helsinki (together with the institute in Imatra, Finland), and University of on the basis of extensive programs with many courses on the topic. These are already two, which is clearly a step towards an entire curriculum in semibiosemiotics. And since there are not many people who can teach both semi-New Bulgarian University (Sofia, Bulgaria), University of Perpignan (France), include University of Bologna (Italy), University of Tartu (Estonia), University Currently, there are several centers in Europe in which semiotics is taught

University of St. Petersburg (Russia), 10 University of Bari (Italy), etc. how the semiotic knowledge is going to design the culture. them who have graduated and found a job as a semiotician, we can observe precisely to see the society's need for semioticians. Having already number of the surrounding is more permanent" (Torop 2000: 7). This also allows quite individual is higher in a small cultural space, and maybe his/her influence on responsibility or the results of education very strongly. "The value of every If teaching in a small culture (as, e.g., the Estonian), it enables to feel one's

bility, it is worthwhile to make it known more widely as a topic for analysis. of biosemiotics and ecosemiotics, and which has already demonstrated its sta-Since Tartu program is the largest and the only one that includes large part

# 2.4. The semiotics program in Tartu University

ers, of these 2 full professors. The Department of Semiotics belongs to a bigger unit of Philosophy and Semiotics, and as a group to the Centre of Excellence in Cultural Theory. In 2009, the Semiotics Department in Tartu University includes 17 teach-

doctorate, then 9 --- and there are at least 25 new students every year. scope, from undergraduate to graduate to postgraduate years. The students learn semiotics as their major during at least 5 years, and if they complete their The Department of Semiotics in Tartu is teaching semiotics in its full

gram launched in the fall of 2009.11 The courses these include are listed below: la-bachelor, master, and doctoral studies, plus the international master pro-The current curriculum of semiotics is actually consisting of four curricu-

#### Bachelor's program

module I: First year Basics of academic writing Cultural histories

<sup>10</sup> See Utekhin 2008.

<sup>11</sup> Väli and Kull 2008

History of semiotics Introduction to semiotics Key texts in the history of European ideas Introduction to philosophy Intercultural communication Introduction to culture studies

Second year

Specialty modules:

Masters seminar

Semiotics and methodology of sciences

Applied semiotics

Current topics in selected fields of contemporary semiotics and culturology

Disciplinary sociosemiotics

Disciplinary biosemiotics

Disciplinary semiotics of culture

General Studies:

Master Program

Graduation thesis or Graduation exam

Research seminar Semiotics of translation and the theories of translation Traditions of semiotics Biosemiotics and theories of living systems Theories of society, and semiotics Lotman and Tartu-Moscow Semiotic School

Discourse theories and practices

Semiotics of culture

Sociosemiotics

Semiotics of city Semiotics of landscape

Optional courses:

Semiotic narratology

Semiotics of advertising and marketing

Semiotics of film

Theoretical semiotics

Semiotics of space Semiotics of media

Introduction to research methods in semiotics

Analysis of culture Ecosemiotics

Theories of everyday behaviour

Optional courses:

Authorial semiotics

Semiotics of text

Interdisciplinary ecology

Interdisciplinary analysis of culture Interdisciplinary socioanalysis

Masters seminar

Theories of text

Research seminar

Third year

Qualitative methods in semiotics

Semiotics of language and theories in linguistics

**Loosemiotics** 

Graduation seminar

Masters thesis:

Visual anthropology

Tourism semiotics and theories of tourism

Sociocultural semiosis

Theatre semiotics

Semiotics of Tartu-Moscow School

Semiotics of landscape

Representation analysis

Narrative theory Memory and culture History of relations between culture and nature

**Doctoral Program** 

Semiotic analysis of subcultures

Semiotics of art

Semiotics of literature

Graduation seminar

Philosophy and methodology of science

**Doctoral Thesis** 

Optional courses

Practical teaching

Methodology of semiotic analysis Methodology of humanities

Transdisciplinary semiotics and theory of culture Disciplinary semiotics and theory of culture

Doctoral seminar

### International master program

General module:

History of semiotics: Basic concepts and classical works Tartu-Moscow Semiotic School

Readings of J. v. Uexküll and J. Lotman

Methodology for semiotic analysis

#### Culture module:

Cultural semiotics and theories of culture Semiotics of art

Semiotics of translation

Semiotic analysis of performance and multimediality

#### Nature module:

Biosemiotics

Zoosemiotics: Umwelt and animal communication Ecosemiotics: Cultural interpretations of nature Landscape semiotics

#### Society module:

Semiotic analysis of subcultures Models of communication and mass media Ideology and the concept of identity Sociosemiotics and societal theories Optional courses

#### Master thesis

gram (see Randviir 1996), this has been one of emphases already since its of nature, and semiotics of society. As compared to an early version of the prointroduction, but is further developed now. As seen from above, the program is joining semiotics of culture, semiotics

There are several aspects that may need further attention. These include

- (a) semiotics of law; however, there exists a special volume of the *International Journal for the Semiotics of Law* devoted to Tartu-Moscow school, guest edited by Tartu student V. Verenich (2005);
- (b) semiotics of economy (not just marketing and advertising, but economy as
- (c) semiotics of information technology (computer semiotics and computational semi
- (d) medical semiotics (now covered by a web-base course);
- (e) semiotics and philosophy

given by visiting scholars. However, these topics are occasionally covered by the intensive courses

As for conclusion on the curriculum, it should be said that this is not just

a program for interdisciplinary studies—this is more a transdisciplinary study which may otherwise be a threat for a field of "as if almost everything". with its quite massive theory, history, and ambitions, with its own specific aim. However, what makes semiotics special is that it is at the same time semiotics In this way, we hope, it will be possible to avoid an expansion of semiotics—

eral components, among these, This building of semiotics, in Tartu case, has been put together from sev-

- (1) semiotics as a theory of culture, supplied with philological scholarship (J. Lotman and his colleagues);
- (2) its connection to cybernetic thinking (earlier, e.g., via A. Kolmogorov), and a focus on modelling systems;
- (3) its attachment to contemporary science (for instance, I. Prigogine, and some versions of complex systems theory);
- (4) non-mainstream biology (Uexküll, later Copenhagen group)
- (5) American semiotics (Peirce, and Sebeok)

place, time, and the way that it lives—is described briefly in the chapter below. The background and the atmosphere of Tartu semiotics—its relationship to

# 2.5. A brief story of the Tartu school: Why in Tartu

ly on a long-term tradition, some roots of which can be described below. one of the major semiotics programs in the world for 2009. This stands strong-1992. Since 1993, there exists a study program in semiotics that has grown into The department of semiotics in the University of Tartu was established in

## (a) An old multilingual university

was born. Newton soon. second after Uppsala in northern Europe, and four years before Harvard. This was the year when João Poinsot wrote his treatise on signs, and John Locke 1632 was the year when the University of Tartu was established—as the

an interaction may take place without a contact. action always requires the direct contact of bodies, whereas Newton stated that in which the (then) anti-cartesian theory of Newton (Philosophiae naturalis principia mathematica, 1687) was taught. 12 According to Descartes, an inter-According to the existing knowledge, Tartu was the first university in the world The Medieval tradition (inherently semiotic) was strong in this university.

guage of instruction was Latin, whereas Swedish and German were also used Since when the word 'semiotics' was used is not remembered. The lan-

# (b) Semiotics as a medical discipline taught in the 19th century

In the 19th century, the language turned into German—and the university

<sup>12</sup> See Vihalemm and Müürsepp 2007.

(then Dorpat as the German name of Tartu) became famous.

called "Physiology, pathology, and semiotics". to the faculty of medicine. Most of the period of its existence, the chair was established. As in several other European universities, this belonged, naturally, Tartu, and in 1802, the first professorship of semiotics in Tartu University was coined by Karl Friedrich Burdach (followed by Lamarck), soon a professor in In the beginning of the 19th century, in 1800, the term 'biology' was

that established developmental biology. But Baer came back to Tartu later. the turn of the paradigm in biology—from preformism to epigenetics—the work finishing his work "Entwickelungsgeschichte der Tiere" which became to mark this position of medical semiotics, but he could not come because he was just In 1826, Karl Ernst von Baer (alumnus of Tartu University) was elected to

# (c) Anthropology that includes both physical and cultural

major opponent. Jakob von Uexküll became his follower. the species-specific worlds of organisms. He introduced the concept of biologembryology, anthropology, and theoretical biology. He was one of the first who ical time. K. E. von Baer, being a forerunner of Darwinism, 13 later became its wrote about the ecological webs as the factor of ecological stability, and about In the 19th century Europe, Baer was a leading scholar. His work included

lished in Europe—on physical anthropology. But he did also much work in the field of ethnology, studying traditional cultures in Siberia. Baer was among the initiators of the first anthropological journal estab-

# (d) Non-mechanicist approaches—Uexküll

so also Jakob von Uexküll. 15 within which the holistic and pre-cybernetic concepts were developed. 14 And in the first decade of the 20th century most of the leading biologists were supa reaction to the growing mechanicism in biology. It is interesting to learn that porting to it, at least to the milder versions of neovitalism. It was an approach The end of the 19th century marks the start of neovitalism-very much as

# (e) Heterochrony as a source for innovation

guishes. He has pointed to the phenomenon of heterochrony—which is the situation where two systems in the different stage of development get into contact. Thure von Uexküll had an explanation for why the Baltic region distin-

lutionary innovations in the history of life that led to the emergence of new As known from the description of macroevolution, most of the great evo-

and Russia flourished in the industrial development, romantic ideals forgotten tural economy still lived in Romanticism, 16 whereas both the western Europe something new. Similarly in case of cultures. Baltic region due to its agriculcourse, sometimes it just does not work. But if it happens to work, it creates the communication of the very different in the situation of symbiosis. Of types of organic forms have been resulted from the contacts of this kind-from happened to be at that right place. behind. The ideas of two ages could meet in the Baltic, and Jakob von Uexküll

baby, but a harsh environment instead, where there is so much new to learn. created - via neoteny, or slowing down the speed of ontogenetic development. thing new in your surrounding. This is exactly how the human species has been The brain is still slowly growing, but that is not the mother's body around the A lesson from this is obvious-slow down your speed, and you find some-

# (f) Non-darwinian approaches that connected biology with general linguistics

concept)-have been the major sources for working out his approach to linwinian evolutionist, a Russian scholar Lev Berg (the author of nomogenesis guistics during his years in Prague. 17 for Tartu semiotics), two scholars-Karl Ernst von Baer, and another non-dar-Interestingly enough, for Roman Jakobson (who was an influential figure

instance due to Jan Baudouin de Courtenay, who has worked in Tartu in 1883-1893, and via the works of Jakob Linzbach (Revzin 1965).18 General linguistics itself had a strong early tradition in Estonia, for

turned into Russian. In 1920, it turned again-into Estonian. In the end of the 19th century the official language of Tartu University

### (g) Epigenetic episteme

standings. Uexkull was clearly a son of epigenetic era. 21st century, we can observe a turn again-a new start of epigenetic undergenetic preformism which became a dominant view. In the first decade of the Darwinism was accepted by the community of biologists together with the Baer, and lasted until 1930s, with the Modern synthesis, since when the ics. Preformism prevailed in the 18th century. An epigenetic period started with teristics is the regular alteration between the ages of preformism and epigenet-In the history of the western biological thought, one of its major charac-

because it does not see the natural selection (or a blind watchmaker) as a major tion-it is an evolutionism, but strictly a non-darwinian evolutionism-Epigenetics is a very special approach in biology. What concerns evolu-

<sup>&</sup>lt;sup>3</sup> In the introductory chapter to the *Origin of Species*, Charles Darwin mentions nine surprisingly enough, two came from Tartu: Alexander Keyserling and Karl Ernst von scholars who had developed the theory of evolution before him. Among these nine,

<sup>14</sup> See also Magnus 2008.15 See Kull 2001, and Mildenberger 2007a.

<sup>&</sup>lt;sup>16</sup> Romanticism itself can be seen as a critique of Moderns inside the Modern. The continuation of namely this approach has developed a dissident tradition that has had several further forms in the 20th-century Tartu.

<sup>17</sup> Patrik Seriot (2001; 2003), from the University of Lausanne, Switzerland, has written about this little but highly interesting chapter in the history of semiotics in detail

<sup>&</sup>lt;sup>18</sup> On some other figures, see Mildenberger 2007b.

Sometimes intelligently, sometimes not so intelligently. is simple — life is itself its designer. Semiosis is the one that designs semiosis. factor in evolution. Neither is it lamarckian. Neither creationist. The principle

# (b) Lotman and establishing the cultural semiotics—Tartu and Moscow

tion, less unification. only place where he could so productively develop his semiotic views---where ideology has not so strong dominance, where there is a little less communica-In 1950, Juri Lotman came to Tartu. For him, periphery was probably the

developed—Estonia—is historically very rich in various types of boundaries. major focus (Uspenskij et al. 1973). The place where this approach has been and center, and the boundaries as the points of creativity have been among its dations for semiotics of culture-for which the explanation of the periphery In 1960s, Lotman, together with his colleages from Moscow, set the foun-

oldest semiotic journal in the contemporary Babel of scientific publications. In 1964, Juri Lotman established the journal Sign Systems Studies—the

tance and the major source of the contemporary semiotic work in this univer-The tradition established by Juri Lotman is certainly of the central impor-

# (i) Modelling systems—Lotman and Sebeok

language" (Lotman 1967: 130; see also Lotman 1977). edge, insight or ordering. Therefore a modeling system can be regarded as a that is in a state of a fixed analogy to the entire sphere of an object of knowlschool, was defined as "a structure of elements and rules for combining them The concept of modelling system, as developed in the Tartu-Moscow

(Lotman 1967: 131).20 second level, can appropriately be called secondary modelling systems" and that acquire supplementary superstructures, thus creating languages of a ones were distinguished: "Systems that have a natural language as their basis Within the modelling systems as languages, the primary and the secondary

mental order. Which simply means that both-Lotman and Sebeok-are right whereas the dividing line between non-human and human is of more fundaaccording to Lotman are both the subclasses of the sphere of human language, old terminology, because the primary and secondary modelling systems ling systems the primary. Still I do not think that it is necessary to abandon the building is simultaneously a model-building. He called the biological modelof models, however, of a different type. According to Sebeok, any umwelt-Sebeok, when using this concept, made a point that all organisms make use

(Mandelker 1994; Sebeok 1998; Kull 1999; Torop 2005). semiotics altogether, moves towards a wider understanding of semiotics In 1980s, with introducing the concept of semiosphere, Lotman, and Tartu

# (j) Biosemiotics — Tartu and Copenhagen

For Tartu, it meant a start of regular and intensive contact with the western The end of 1980s meant a period of crucial changes in the map of Europe.

The Department of Semiotics was established (in 1992) and started to

English language replaced Russian, and a wider reading of Charles S.

many other leading semioticians of the world, and Tartu semioticians started to travel around. Sebeok visited Tartu again couple of times (in 1997, 1999),<sup>21</sup> as well as

working group in biosemiotics. which resulted a productive co-work and the formation of an international and Thomas Sebeok in 1993, Copenhagen and Tartu biosemioticians first met, At a conference in Glottertal, Germany, organised by Thure von Uexküll

### (k) Culture and ecosystem fuse

and biosemiotics has been ecosemiotics. When we first met with Winfried Nöth with human geographers (whose attachment to semiotics seems to be growing students who may not have a professional background in biology, but know well on the semiotic aspects of the role of nature for cultures, it fits very well for the in Tartu and sessions in Imatra on the topic.22 If defined as a field that focuses Studies. I wrote another one, and in the next years we had a series of conferences paper on ecosemiotics, and I asked him the text for publishing it in Sign Systems in Toronto (at the meeting "Semiosis, Evolution, Energy"), in 1997, he gave a worldwide), and the ecosemiotic summer-seminars every year. the theory of culture and are interested in ecology. In Tartu, this led to a co-work An interesting special consequence from the contact of semiotics of culture

culture. Culture is a process that includes the relations in the ecosystem in which humans live. However, this has also a deeper theoretical side—the extended notion of

# (1) Semiotic analysis of local cultural conflicts

enough, semiotic analyses of conflict cases quite often provide useful soluvery different models as tools in the analysis. restricted and not well systematized. Different schools of semiotics use still tions, despite of the fact that the methods of semiotic analysis are still rather Semiotic analysis has to discover how a concrete sign works. Interestingly

See also Andrews 2003, Torop 1998, and Kull and Lotman 1995.

<sup>20</sup> This distinction has already been described in the introductory text "From the editors" in Trudy po znakovym sistemam (Sign Systems Studies) 2: 6 (1965). See also Levchenko and Salupere 1999.

<sup>21</sup> On Sebeok's relationships to Tartu, see Sebeok 1987 and 1998

<sup>22</sup> See Nöth and Kull 2000.

to define the concept of Estonian food, or how to make a brand that will work pretations. There have also been questions on the conflicting interests in either conflict situations with some monuments that had contrasting ideological interanalysis in various difficult cases. For instance - in several cases these were political or commercial advertisements. But it has also been problems as how Semiotics Department receives regularly requests to provide a semiotic

this label in their diploma. Semioticians are met as people of knowledge, and thus they get good jobs with million people. Most people with high education have heard of semiotics. Due to its size, Estonia may serve as a test-site for semiotics. There are 1.3

### (m) The culture of bibliophily

Department stores the memorial biosemiotic library of Thomas A. Sebeok. Semiotics Repository owns Juri Lotman's complete library. The Semiotics complete set of Uexküll's works, plus some archive materials. The Estonian rare publication series. In addition, Jakob von Uexküll Centre in Tartu has the rich collection of the semiotic literature of the world, including the sets of quite with the collection at the main library of Tartu University, has a remarkably The specialized semiotics library at the Semiotics Department, together

Tartu University Press publishes several publication series in semiotics

- (a) the international journal Sign Systems Studies (established by Juri Lotman in 1964 currently the oldest semiotics scholarly journal in the world),
- (b) an international book series Tartu Semiotics Library (established in 1998, with ter volumes published since then),
- (c) a book series Dissertationes Semioticae Universitatis Tartuensis for doctoral diseleven volumes published since then), sertations in semiotics defended in Tartu University (established in 2000, with
- (d) an electronic journal Hortus Semioticus (established in 2006, three volumes published since then),
- (e) the journal of the Estonian Semiotics Society, Acta Semiotica Estica (established in 2001, five volumes published since then)

# 3. The function of semiotics as a basis of pluralist approach

Obviously, entire semiotics, and semiotics as a profession. This includes at least three tasks: What has to be taught when teaching professional semioticians?

- (1) teaching the semiotics itself;
- (2) compiling the semiotics as a (plural and long-term) whole;
- (3) placing the work of semiotics in the society, in a local ecosystem; semiotics obvi-

Recently I had a conversation with Umberto Eco, where a definition and ously cannot live without a stable function in it.

> standing signification. And accordingly, to help people with ... Many methods go. healthiness. Many methods go. The aim of semiotics, in Eco's words, is underaim of medicine is obviously to understand disease—and to help people with medicine-because semiotics is defined via its aim, and not via its method. The fate of semiotics came up once again. Eco claimed that semiotics is similar to

cognition becoming more central in semiotics. flow into semiotics. Semiotics is fusing with cognitive science, the problems of Concerning the near future—Eco expected that much of philosophy will

sity and translation are the sources of creativity, and of knowing. Instead, it is about how to share the understanding. Since the qualitative diver-The aim of semiotics is certainly not to canonize its word, its terms

for a creative, meaningful life, a necessary requirement of diversity. but a difference what is also a difficulty. Non-translatability is a sine qua non nication is the difference between the people. Whereas not just any difference, Lotman liked to emphasize that the requirement for a meaningful commu-

and archeology. Application of identical models to all these fields would be should not be unified. One may only think about unification that would cover, ridiculous. for instance, soil science, ornithology, political economics, literature studies This, interestingly enough, infers the non-unification of science. Science

the object. together with knowing, and for semiotics as knowing of knowing it should be than the logical contradictions. Because contradictions are ontologically tial non-convertibility. Their role is - in its basis - to describe nothing less This paradoxically means that semiotic models have to include an essen-

very much in the sense of Niels Bohr. While the contemporary physics has serve also as an approach that can describe the whole of knowledge, in which physical processes, then semiotics should never do so. This allows semiotics to been able to abandon Bohr's complementarity on the level of understanding the there is more in semiotics than pure pluralism—there is complementarity physics, together with all the method of natural science, is a special case. What is going to unite sciences of culture and life then, is pluralism! But

## 4. Some tasks for semiotic theory

otics-has provided. gration of semiotics-integration between semiotics of culture and biosemi-Here belong the challenges, and also results, that the contemporary inte-

this integration. (and in some extent have been solved already) as a productive consequence of Perhaps there are (at least) two fundamental questions that can be solved

ious kind) as a result of sign action. Why there are species in the living world? tures and languages. Anywhere, where a communication in the living occurs, This question applies throughout the living world, including the human cul-First is the question on the existence of diversity as such (of species of var-

in the semiosphere sensu lato, it creates diversity, the species and cultures and subcultures etc., that hold together and separate themselves from the else. This is the diversity of signs systems that lays on the basis of biodiversity, as well of cultures, a difficulty of translation accompanying this diversification, which turns out to be the major value in the world of life at the same time.

Second is the question on existence of signs, or of plurality. Why there are signs? Which is also about the nature of information—why and when there is information in the world. We know in semiotics now already quite well, what sign is. But why there is semiosis? Here is a touch of the plurality as referred in the title of talk, in its profound sense. Semiosis creates objects, and makes each object plural. Each is sign, which means each is simultaneously something else, each is many.

The existence of diversity (that there are many species of things), and the existence of plurality (that each object is plural), are both due to semiosis. (But both of these problems will require a separate paper.)

If the first question is one for which biosemiotics has full tools, then the second goes partly beyond its limits. This is because here some physics is required, too.

Communication creates diversity, but it also destroys it if there is too much of it. Because, the standardization and homogenization are also results of communication.

Therefore, not only the periphery but also specialization have its importance in order to find an optimal level of independence and connectedness, between one and many.

## 5. Finis—life in an organic balance

Likewise an ecosystem requires an evolution before it reaches its gentle (and always vulnerable) sustainability, an analogous is true for any human culture. In the "Universe of the Mind", Juri Lotman has remarked (2000: 35):

But we are still a long way from being able to make any well-grounded prognosis of the optimal structures of culture. Until that time we must understand and describe their mechanism, at least in its most typical manifestations.

Something similar has been said by Jakob von Uexküll when he envisioned the main task for a researcher of life to be the understanding of the music, of the concert of life.

A unique feature of us after becoming humans, or the symbolic species, as Terrence Deacon (1997) says, or the semiotic animal, which is John Deely's and Susan Petrilli's term (2005), is responsibility. Including the responsibility of teaching semiotics. When freedom—the semiotic freedom, using Jesper Hoffmeyer's concept (e.g., 2008)—grows, also our responsibility—in semioethical sense, as John Deely and Susan Petrilli are using the concept, and especially the responsibility of us, semioticians—grows. Responsibility of having

communication, having diversity, but not too much of communication which would destroy the diversity. This is the responsibility on the fate of love in the world.\*

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# SEMIOTIC THEORY AND HUMAN INTELLIGENCE

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The classic Greek philosophers were driven by a passion not simply to understand the world, but equally to use that understanding in pursuit of the good life—a life both internally virtuous and externally successful. Two grand aims—right thinking and right living—were linked, but achievable only through arduous and determined pursuit. Knowledge of reality and the good life were pursued by the pre-Socratics—Thales, Heraclitus, Parmenides, Democritus—and with greater force and systematicity by the classics—Socrates, Plato, and Aristotle.

For Socrates (469-399 BC), the quest for understanding began with an admission of ignorance. Underlying all his teaching was the axiom that commonsensical beliefs are routinely deeply flawed. By necessity, the quest for truth was a dialogic process sustained by the hope for progress toward understanding, not the attainment of certain knowledge. Socrates' contemporaries, the Sophists, likewise believed that certain knowledge was not attainable—a conclusion rediscovered by the empiricists—Locke, Berkeley, and Hume—more than a thousand years later. Both Socrates and the Sophists also believed that knowledge was not to be regarded as an end in itself but was above all the means to live a good life. For the Sophists, the good life was a successful life, and knowledge was a tool for the achievement of worldly success. Socrates, too, believed that knowledge was essential to the good life, but the good life was understood differently to be a life of virtue. True knowledge was attainable only through arduous pursuit—ideally, a joint pursuit with those like-minded.

Like his teacher Socrates, Plato (427-347 BC) believed that truth is elusive. This conviction was vividly illustrated in the Allegory of the Cave. Its point is that reality is not immediately accessible; instead, divine essences lie behind things observable in the tangible world. To lay hold of a deeper reality, to grasp true knowledge, required *eros*—the passion to understand. Insight into the divine essences is achieved through a re-union of enduring ideas once known but forgotten. The dialectic entailed self-critical knowledge and insight—spontaneous recognition, or epiphany, of the enduring logic of the cosmos, the Universal Logos, that was resident in both the mind and the world. Plato's thinking held ideas in common with the Pythagoreans—that the cosmological order and the order within were identical. Another similarity is that the pursuit of understanding was the true path to attainment of immortality and divine status (like Pythagoreans), in contrast to Homerians who starkly divided the gods and humanity.