

Zahájení řízení ke jmenování profesorem



Vážený pan
prof. Ing. Vojtěch KONOPA, CSc.
rektor TU v Liberci
Zde

Č.j.: 14/5815/10

Věc: Oznámení o zahájení řízení ke jmenování profesorem podle § 75, odst. (2), písm. a) zákona o vysokých školách č. 111/98 Sb.

Vážený pane rektore,

na základě § 75, odst. (2), písm. a) zákona o vysokých školách č. 111/98 Sb. Vám oznamuji zahájení řízení ke jmenování profesorem pana

doc. RNDr. Jiřího Erharta, Ph.D.

na Fakultě přírodovědně-humanitní a pedagogické Technické univerzity v Liberci s tím, že ministerstvu mají být neprodleně oznámeny následující údaje:

I. Zahájení řízení ke jmenování profesorem: 18. 1. 2010

Uchazeč: **doc. RNDr. Jiří Erhart, Ph.D.**
docent na Fakultě přírodovědně-humanitní a pedagogické
Technické univerzity v Liberci

rodné číslo:

stav: ženatý

rodné příjmení: Erhart

trvalé bydliště: Na Pískovně 648, 460 14 Liberec 14

Obor: Fyzika

S pozdravem

V Liberci dne 19. 1. 2010

doc. RNDr. Miroslav Brzezina, CSc.
děkan



Katowice, January 7, 2010

**Recommendation Letter
for Dr. Jiri Erhart
Department of Physics and International Center for Piezoelectric Research
Technical University of Liberec**

In the last years the scientific activities of Dr. Jiri Erhart have been concentrated on the very attractive physics field that is connected with the piezoelectric phenomena. Especially he was interested in the domain engineering in so called ferroelectric relaxors and with the piezoelectric transducers. Moreover he has been dealing, since many years, with the dielectric properties of ferroelectrics.

The best measure of the scientific activity is papers. In fact, in the last nine years Dr. Jiri Erhart has published 26 papers in prestigious scientific journals as Journal of Applied Physics, Japanese Journal of Applied Physics, Phase Transitions, Solid State Communications, Ferroelectrics, Advances in Applied Ceramics. Some of his papers were cited (up to now) over 50 and 30 times that gives very high quality of his last years' dynamic scientific work. It is worth noting that he is the author of a Chapter in the handbook on "Multifunctional Polycrystalline Ferroelectric Materials", on the domain engineered piezoelectric resonators, edited by well known physicists L. Pardo and J. Ricote and accepted for publishing by Canopus Publisher Ltd. in United Kingdom. This proves Dr. Erhart's high positions in the physicists society.

Last year I had occasions to listen to his contributions during international conferences and I have to admit, that they were very clear presentations, with interesting results and convincing conclusions. Moreover, discussion after his contribution has proved his extremely high experience in experiments and in elaboration of the experimental data. He is rarely found physicist who can combine himself theory and experiments.

The aim of the scientific research to be conducted in the framework of his professor position is studies of ABO_3 solid solutions of perovskite structure. This kind of materials has extremely great potentiality to be used in modern techniques, electronic, non-linear optics and nanotechnology, to mention but a few. Another attractive feature of such ABO_3 perovskites is a possibility to investigate – from the point of view of basic research – the complex and extremely interesting nature of structural phase transitions, often leading to the appearance of ferroelectric/piezoelectric phases in these ferroelectric materials. I am sure that it is necessary to continue Dr. Jiri Erhart scientific carrier, connected with the piezoelectric properties of ABO_3 materials. His experience in this field cannot be wasted.

I can vouch Dr. Jiri Erhart enthusiasm and great interest in Physics, with reliability and commitment in his scientific work. He is a physicist of high experience in experiments and theory and of wide knowledge that justifies applying for the professor position. I feel sure he is very suitable candidate and I am convinced that he will take advantage of this position to develop his scientific career. It has to be stressed that Technical University of Liberec will strongly benefit from the Dr. Jiri Erhart position through his further research papers of very high quality. Important is also that as a scientist being able to combine the theory and experiment, he can conduct essential scientific investigations and submit grant applications. This is what is first of all expected from scientist appointed to the professor position.

prof. Krystian Roleder
Institute of Physics
University of Silesia
Katowice, Poland



Satoshi Wada, Dr.
Professor

University of Yamanashi
Interdisciplinary Graduate School of Medicine
& Engineering
Department of Applied Chemistry

4-4-37 Takeda, Kofu,
Yamanashi 400-8510, Japan
Phone: +81-55-220-8555
Fax : +81-55-220-8555
E-mail: swada@yamanashi.ac.jp

Reference letter for the full professor position application of Assoc. Prof. Jiří Erhart

Kofu, January 5, 2010

To whom it may concern:

My first contact to Jiří Erhart comes from prof. Fousek whom I met during my stay at Penn State University in 1996, where we have been both working at the Materials Research Laboratory. I know Jiří Erhart from previous correspondence on domain engineering and mainly from his stay in our laboratory at the Tokyo Institute of Technology (TIT) in 2003. He was awarded The Matsumae International Foundation fellowship for this stay. Jiří Erhart was mainly involved in calculations of electromechanical properties of multidomain ferroelectric materials, domain observations and engineering domain structures application for temperature independent piezoelectric resonators. I have been observing his quick progress in the studies of ferroelectric domain phenomena and the thoroughness of his work. While he is originally a theoretician experienced in calculation methods, I can acknowledge also his attitude towards experimental work. His results have been published in several papers and presented at international conferences in the field of ferroelectrics.

Since his stay in our laboratory at TIT we are in occasional contact on ferroelectric phenomena, which however did not result in common projects. I visited laboratory of Jiří Erhart at his home Department of Physics at the Technical University of Liberec in 2004 and again in 2006. These visits further convinced me in his originality towards experimental work, theoretical knowledge of the ferroelectrics domain phenomena, his laboratory skills and his ability of both designing and managing research projects. Although he repeatedly succeeded with his project proposal at the Grant Agency of the Czech Republic, he has not at his disposal an advanced technology and his work must therefore include high level of “value-added” knowledge. I can also profit from his teaching abilities having his former Ph.D. student Petr Půlpán as a post-doc in my laboratory at Yamanashi University in Kofu.

Personal characteristics typical for Jiří Erhart include his high working involvement, politeness and critical approach towards results of his work. I can acknowledge and prove also his patience and friendly attitude towards education of students, as he demonstrated during his stay at our laboratory at TIT in 2003.

Finally, I can be sure that professor position would enable him further capitalize obtained training and continue in improving and elaborating his knowledge and skills and to transfer these to the students in his classes. His professional and personal qualities guarantee that he would be a hard-working, reliable and leader member of his department. I can therefore strongly support his application for the full professor position.

Sincerely,

Prof. Satoshi Wada, Ph.D.



Nanjing University

National Laboratory of Solid State Microstructures

22 Hankou Road, Gulou District, Nanjing 210093, P. R. of China

TEL: +86-25-83595565 FAX: +86-25-83595535 E-mail: zhusn@nju.edu.cn

Dec. 18, 2009

To whom it may concern:

I am very glad to recommend Mr Dr. Jiří Erhart, an outstanding scientist and excellent teacher, to you. I hope this letter is helpful to you when assess his application for the full professor position in Technical University in Liberec.

I have come to a closer contact with Jiří Erhart as early as in 1998, when we had been both working at the Materials Research Laboratory, PennState University, USA. He was mainly involved in calculations of electromechanical properties of multidomain ferroelectric materials. I had been observing his quick progress in such a new field and the thoroughness of his study and work. He knew the finite element method and its applications well and performed calculations of effective material properties in twinned ferroelectric crystals. The results are very significant for the understanding and applications of these materials. They have been published in technical journals and presented at international conferences.

Since that time we were in occasional contact on ferroelectric phenomena, which however did not result in common work and publication, because my research focused on domain-engineering for nonlinear optics. In 2004, I had the opportunity to visit laboratory of Jiří Erhart in the Department of Physics at the Technical University in Liberec. This visit further convinced me in creativity of Jiří Erhart, his originality, knowledge of the field, laboratory skills and his ability of both designing and accomplishing research projects. Since he has not a well-equipped laboratory and advanced technology his work could not be successfully performed without his self reliance and independence. These characteristics, typical for the work of Jiří Erhart, should be supplemented with his personal qualities that include reliability, working involvement, patience, friendly relation to coworkers and critical approach towards results of his work.

I am sure that the professor position would enable him further capitalize obtained training and continue in improving and elaborating his knowledge and skills and to transfer these to the students in his classes. On the other hand, his professional and

personal qualities guarantee that he would be a competent, hard-working, reliable and friendly member of a team in his institution in future. I am, therefore, strongly supporting his application for professor position. I would highly appreciate your favorable considerations to his application. If more information about him is required, please do not hesitate to contact me.

Sincerely yours,

Dr. Shi-Ning ZHU
Professor of National Laboratory of Solid State Microstructures
Chairman of Department of Physics
Nanjing University

**Návrh hodnotící komise pro jmenování
doc. RNDr. Jiřího Erharta, Ph.D. profesorem**

Kandidáti:

- prof. RNDr. Jaromír Plášek, CSc. MFF UK Praha – předseda komise
- prof. Ing. Štefan Višňovský, DrSc., MFF UK Praha
- prof. RNDr. Ivan Pelant, DrSc., FZÚ AV ČR, v. v. i., Praha
- doc. RNDr. Martin Diviš, CSc., MFF UK Praha
- prof. RNDr. Jana Přívratská, CSc., Ph.D., FP TUL, Liberec

Liberec 19. 1. 2010

doc. RNDr. Miroslav Brzezina, CSc.
děkan