

# New Technologies and Old Professional Development: A Reflection on Emerging Approaches

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JUNE 16, 2017

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# Introduction

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Six categories of critical change faced by higher education (Wiley & Hilton, 2009):

- Analog to digital
- Tethered to mobile
- Isolated to connected
- Generic to personal
- Consumers to creators
- Closed to open



# Effective Professional Development (PD) is key!

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Fast changing technologies

Various initiatives in schools

Teacher readiness in integrating technology into  
teaching and learning

Equal access to quality teachers for students

# Does teacher PD make a difference?

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“...but does investing in teacher professional development make a difference? If so, what separates effective professional development from ineffective offerings?”

(Center for American Progress, 2017)

# Teacher PD can be Effective

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“Educators and policymakers are increasingly looking to teacher professional learning as an important strategy for supporting the complex skills students need to be prepared for further education and work in the 21st century. For students to develop mastery of challenging content, problem-solving, effective communication and collaboration, and self-direction, teachers must employ more sophisticated forms of teaching. Effective professional development (PD) is key to teachers learning and refining the pedagogies required to teach these skills.”

Darling-Hammond, Hyler, & Gardner (2017).

# Teacher PD is a Failed Investment

**DESPITE THESE EFFORTS,  
MOST TEACHERS DO NOT  
APPEAR TO IMPROVE  
SUBSTANTIALLY.**



Only **3 in 10** teachers demonstrated  
substantial improvement.

# Characteristics of Quality Professional Development by Research

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## **Lawless & Pellegrino, (2007) and Thomas et al. (2012):**

- Duration
- Access to new technologies
- Meaningful and active learning
- Peer collaboration
- Community building
- Personalized assistance
- Practical interventions
- Measurable impact on student learning

## **Colbert et al. (2008):**

- Building professional learning communities, collaboration, and a culture of inquiry are crucial in developing good teachers.

## **Tondeur et al. (2016)**

- An effective teacher professional development model
- Engaging teachers in an ongoing inquiry



# Characteristics of Professional Development in Practice

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## **Traditional**

- Short-term workshops or seminars
- Coaching
- A top-down approach
- Limited in intellectual challenges
- Discontinuous
- Surface learning
- Irrelevant

## **Novel**

- A variety of forms
- Technology-enhanced
- A bottom-up approach
- Learner-centered professional learning
- Continuous
- Deep learning
- Meaningful

# Emerging Approaches

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- Online Professional Development Resources
- Professional Learning Communities (PLCs)
- Social-Media-Based Personal Professional Learning
- Open Educational Resources (OER)
- Networked Professional Learning (NPL)
- Other emerging approaches?

# Online Professional Development Resources

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Different from online professional development activities or initiatives such as PLCs

Knowledge management

Participatory

Collective intelligence

Evolving

# Professional Learning Communities (PLCs)

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Collaboration

Student Learning

Support deep inquiry into practice

Support various professional missions

Mandatory vs. voluntary PLCs

Different findings about the effectiveness of PLCs

# Social-Media-Based Personal Professional Learning

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A transition from a broadcast approach to a consumerist approach

Personalization

Connectivity

Personal Learning Networks (PLNs)

Personal Learning Environments (PLEs)

High level of motivation

Access to experts

# Open Educational Resources (OER)

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The notion of openness

Massive Open Online Courses (MOOCs)

OER Commons

Wikimedia

WikiEducator



# Networked Professional Learning (NPL)

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Research-based, collaboration-focused NPL

Corporate-Education partnerships

University-School collaborations

Local or global collaboration

Opportunities for situated learning and knowledge construction

# Issues Related to Current Tech-Supported PD

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Teachers' perceptions of teaching and learning

A disconnect between professional development and actual classroom practices

The design of professional development

Sustained support

Communication

Professionalism



# Discussion & Reflection

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What are the characteristics of an effective educator in today's connected world?

How to be selective in collaboration in today's connected world?

What does an innovative PD mean?

What is the true meaning of professionalism?

What is the role of emerging technologies in PD?

What does professionalism mean in PD?

# Characteristics of Effective Professional Development

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## Learning Policy Institute (2017):

- Tailoring to teacher's specific academic content focus
- Actively engaging participants
- Focusing on collaboration
- Modeling best practices
- Individualizing coaching
- Providing feedback and opportunities for reflection
- Sustaining the programs over time

# Concluding Thoughts

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Consider all variables involved in the learning and change processes when designing PD sessions or programs;

Teachers should align what they believe philosophically and what they practice in classroom teaching;

Recognize that every individual is a learner and a contributor in a learning environment;

Recognize the culture of teaching as a profession;

Propose meaningful research questions and adopt innovative research methodologies that help investigate and explore the issues related to PD.

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